

# **TERMINAL FOR RESERVATION SYSTEM**

**Publication number:** NZ236258 (A)

**Publication date:** 1996-09-25

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**Applicant(s):** JAPAN AIRLINES CO +

**Classification:**















- **international:** **G06Q10/00; G06Q10/00;** (IPC1-7): G06F17/60; G06F153/02

- **European:** G06Q10/00A

**Application number:** NZ19900236258 19901128

**Priority number(s):** JP19890308028 19891128

## **Also published as:**

 EP0455825 (A1)  
 EP0455825 (A4)  
 EP0455825 (B1)  
 US5311425 (A)  
 RU2107322 (C1)  
 KR970004087 (B1)  
 WO9108540 (A1)  
 DE69033520 (T2)  
 CN1052564 (A)  
 CN1024302 (C)  
 CA2049303 (A1)  
 CA2049303 (C)  
 AU6877191 (A)  
 AU651327 (B2)

<< less

Abstract not available for NZ 236258 (A)

Abstract of corresponding document: **EP 0455825 (A1)**

A terminal of a reservation system connected to a host computer for managing the reservation situation, used for requests of inquiring the reservation situation, acquiring a reservation, and preparing, inquiring and altering a reservation record, to the host computer. A display (17), a pointing device, and a terminal computer are provided. With the terminal, the operator can execute in parallel a number of tasks, e.g. reserving processes (35,41,43,45,47) for the reservation acquiring job, reservation editing processes (51,53,55,57) for preparing and altering the reservation record, and reservation inquiring processes (71,73,81,83,85) for inquiring the reservation record.; The jobs are performed by operating parts with the pointing device which are displayed on reservation, reservation editing, and reservation record inquiring windows prepared by the processes and arbitrarily arranged on the screen. Data used in common is automatically transferred between the processes. @(174pp Dwg.No.1/28)@

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## Family list

12 application(s) for: **NZ236258 (A)**

Sorting criteria: Priority Date Inventor Applicant Ecla

### 1 Reservation system terminal

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**IPC:** *G06Q10/00*;  
*G06Q10/00*; (IPC1-  
7): G06F15/26

**Publication** **AU651327 (B2)** - 1994-07-21  
**info:**

**Priority Date:** 1989-11-28

**TERMINAL OF RESERVING SYSTEM AND**

### 2 METHOD OF OPERATING TERMINAL COMPUTER THEREOF

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*G06Q10/00*; (IPC1-  
7): G06F15/26

**Publication** **AU6877191 (A)** - 1991-06-26  
**info:**

**Priority Date:** 1989-11-28

### 3 RESERVATION SYSTEM TERMINAL

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**IPC:** *G06Q10/00*;  
*G06Q10/00*; (IPC1-  
7): G06F15/26

**Publication** **CA2049303 (A1)** - 1991-05-29  
**info:** **CA2049303 (C)** - 1998-12-08

**Priority Date:** 1989-11-28

### 4 RESERVATION SYSTEM TERMINAL

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**IPC:** *G06Q10/00*;  
*G06Q10/00*; (IPC1-  
7): G06F15/26

**Publication** **CN1052564 (A)** - 1991-06-26  
**info:** **CN1024302 (C)** - 1994-04-20

**Priority Date:** 1989-11-28

**TERMINAL OF RESERVING SYSTEM AND**

### 5 METHOD OF OPERATING TERMINAL COMPUTER THEREOF.

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**EC:** G06Q10/00A

**IPC:** **G06Q10/00;**  
**G06Q10/00;** (IPC1-  
7): G06F17/60

**Publication info:** **DE69033520 (T2)** - 2000-08-24

**Priority Date:** 1989-11-28

**6 TERMINAL OF RESERVING SYSTEM AND  
METHOD OF OPERATING TERMINAL  
COMPUTER THEREOF.**

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**EC:** G06Q10/00A

**IPC:** **G06Q10/00;**  
**G06Q10/00;** (IPC1-  
7): G06F15/26

**Publication info:** **EP0455825 (A1)** - 1991-11-13  
**EP0455825 (A4)** - 1993-06-09  
**EP0455825 (B1)** - 2000-04-26

**Priority Date:** 1989-11-28

**7 TERMINAL OF RESERVING SYSTEM AND  
METHOD OF OPERATING TERMINAL  
COMPUTER**

**Inventor:** INADA TAKAYA [JP]

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**EC:** G06Q10/00A

**IPC:** **G06Q10/00;**  
**G06Q10/00;** (IPC1-  
7): G06F15/00

**Publication info:** **KR970004087 (B1)** - 1997-03-25

**Priority Date:** 1989-11-28

**8 TERMINAL FOR RESERVATION SYSTEM**

**Inventor:** INADA TAKAYA

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**EC:** G06Q10/00A

**IPC:** **G06Q10/00;**  
**G06Q10/00;** (IPC1-  
7): G06F17/60; (+1)

**Publication info:** **NZ236258 (A)** - 1996-09-25

**Priority Date:** 1989-11-28

**9 OPERATION OF RESERVATION SYSTEM  
TERMINAL COMPUTER**

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**EC:**

**IPC:** (IPC1-  
7): G06F17/60;  
G06F153/02

**Publication NZ272998 (A)** - 1996-09-25  
info:

**Priority Date:** 1989-11-28

**10 TERMINAL FOR BOOKING SYSTEM AND  
METHOD FOR OPERATIONS OF TERMINAL  
COMPUTER**

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**EC:** G06Q10/00A

**IPC:** *G06Q10/00*;  
*G06Q10/00*; (IPC1-  
7): G06F19/00; (+1)

**Publication RU2107322 (C1)** - 1998-03-20  
info:

**Priority Date:** 1989-11-28

**11 Reservation system terminal**

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**EC:** G06Q10/00A

**IPC:** *G06Q10/00*;  
*G06Q10/00*; (IPC1-  
7): G06F15/00

**Publication US5311425 (A)** - 1994-05-10  
info:

**Priority Date:** 1989-11-28

**12 TERMINAL OF RESERVING SYSTEM AND  
METHOD OF OPERATING TERMINAL  
COMPUTER THEREOF**

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**EC:** G06Q10/00A

**IPC:** *G06Q10/00*;  
*G06Q10/00*; (IPC1-  
7): G06F15/26

**Publication WO9108540 (A1)** - 1991-06-13  
info:

**Priority Date:** 1989-11-28

.....  
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Priority Date(s):	28/11/89
Complete Specification Filed:	28/11/90
Class: (6)	G06F17/60
	G06F15/02
Publication Date:	25 SEP 1996
Journal No:	1408

Patents Form No. 5



NEW ZEALAND

PATENTS ACT 1953

COMPLETE SPECIFICATION

RESERVATION SYSTEM TERMINAL

WE, JAPAN AIRLINES CO., LTD., a Japanese corporation of  
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hereby declare the invention, for which we pray that a  
patent may be granted to us, and the method by which it  
is to be performed, to be particularly described in and by  
the following statement:

## RESERVATION SYSTEM TERMINAL

BACKGROUND OF THE INVENTIONField of the Invention

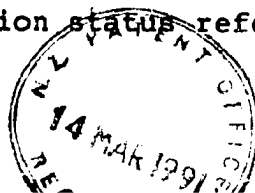
5       The present invention relates generally to a reservation system for reserving various tickets of transport facilities, hotels, tours, etc. by means of a computer, and more specifically to a reservation system terminal connected to a host computer for integratedly  
10 controlling reservation business, in order to transmit operator's instructions to the host computer and to display response data returned from the host computer for the operator.

Description of the Prior Art

15       Conventionally, the procedure required to acquire a reservation at a reservation system terminal is roughly as follows: (1) the current reservation status is inquired to the host computer to check the presence or absence of vacancy (e.g. unoccupied seats); (2) if  
20 unoccupied, a reservation acquisition instruction is transmitted to the host computer; (3) further, some information such as a name, a place where to make contact, etc. are inputted according to the necessity; and finally (4) a reservation record is prepared to  
25 complete the reservation procedure. Further, in some simple reservation systems, the reservation procedure can be completed by only the above steps (1) and (2).

      In the prior-art reservation system, however, a series of the above-mentioned reservation procedure can  
30 be achieved when the operator inputs coded messages in accordance with predetermined formats through a terminal keyboard.

      A prior-art flight reservation system now adopted in Japan Air Line Corporation will be explained in further  
35 detail by way of example. When the reservation status is inquired, (1) the operator first inputs an instruction code indicative of reservation status reference through a



terminal keyboard; (2) a flight section code is inputted; (3) a date code is entered; and (4) a transmit key is depressed, finally.

For instance, when the reservation status is referred to about the section between Haneda and Osaka on January 1, a message as

[AS HNDOSA 01 JAN]

is inputted through the keyboard. This message is received by the host computer; the host computer informs the terminal of the current unoccupied status of flight numbers between Haneda and Osaka at that day; and the unoccupied flight number list is displayed on a terminal CRT image.

With reference to the displayed image, a reservation acquisition procedure is effected to flight numbers displayed in the list. In this case, similarly all the instructions and information data required for flight reservation such as flight number, class, the number of seats, etc. are inputted as codes in accordance with predetermined formats through the keyboard.

The prior-art reservation system is called entry-oriented system, because all the instructions to the host computer are dependent upon the operators' keyboard operation. In addition, since the messages inputted through the keyboard are coded in accordance with predetermined formats, the entry-oriented system mainly involves the following problems:

(1) The operability or manipulatability is poor. In more detail, the operator must remember all the instruction codes to the host computer, the input format, and necessary information codes, etc. In addition, complicated instruction codes and input formats are increased more and more with diversification of the current reservation business. Further, since the prior-art system was originally developed in U.S.A. and therefore the instructions are coded on the basis of English language, the system is hard to deal with for



foreigners. As a result, it is practically impossible for unskilled operators to operate the system, and therefore many hours and higher cost are required to educate and train the operators.

5 (2) Since all the operational procedure is dependent upon the operator's keyboard operation, at least several tens key strokes are required for a single reservation processing and therefore the business efficiency is inevitably low. In addition, there exist other problems  
10 in that the operator tends to become fatigued, in particular in eyes, fingers, arms, shoulders, etc.

(3) The intelligence capability of the terminal is not sufficiently put to practical use. A device provided with a high intelligence capability such as a personal  
15 computer is usually used as the terminal. However, the prior-art terminal is only used as a man-machine interface function between the operator and the host computer, so that it is impossible to store even the response data transmitted from the host computer or the  
20 information inputted by the operator. Therefore, since the response data and the input information obtained at the preceding procedure cannot be used again at the succeeding procedure, the operator must repeat the same operation as at the preceding procedure, thus resulting  
25 in a lower business efficiency.

To overcome these problems, conventionally some improvements have been made mainly in the terminal operability and practical use of intelligence capability as follows:

30 (1) Input guide formats necessary for reservation procedure are provided within the terminal. The operator calls these guides in sequence according to the necessity to input necessary information through the keyboard in accordance with the called guide.

35 (2) A required number of keys at which various information codes are stored are provided for the terminal.





(3) Some input format examples used often are stored in specific keys, and other formats for only items of different contents are modified before inputted to the terminal.

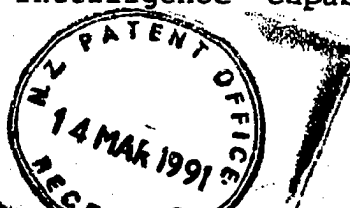
- 5 (4) A display image is divided into a plurality of areas, and some information required for the succeeding procedure is kept in some areas.

In the above-mentioned improvement, however, since the improvements have been made in relation to the entry-oriented systems in which all the procedure is dependent upon the keyboard operation, the intelligence capability of the terminal is not sufficiently put into practical use, without basically solving the above-mentioned problems involved in the prior-art reservation system terminal.

#### SUMMARY OF THE INVENTION

With these problems in mind, therefore, it is the primary object of the present invention to provide a novel object-oriented reservation system by which procedure required to be executed can be simply selected and additionally necessary information can be simply inputted, when the operator has a direct access to or operates a display image by use of a pointing device, in order to markedly reduce the work load to the operator, thus basically solving the afore-mentioned problems involved in the prior-art entry-oriented reservation system.

The other object of the present invention is to provide a reservation system terminal provided with higher intelligence capability such as multitask function for simultaneously processing a series of reservation procedure, automatic information transfer function for automatically transferring necessary information between tasks, multiwindow function for controlling a plurality of images under overlapping conditions, etc., thus making efficient use of the intelligence capability of the terminal.



To achieve the above-mentioned object, the first aspect of the present invention provides a reservation system terminal associated with a host computer for processing reservation status, which comprises:

5 (A) reserving means for forming a reservation image including a plurality of parts for inputting contents related to predetermined reservation items, inquiring a reservation status related to the inputted reservation item contents to said host computer, selecting any one of  
10 reservation objects, and requesting a reservation acquisition related to the selected reservation object to said host computer, respectively;

(B) displaying means for receiving the reservation images formed by said reserving means, and forming and  
15 displaying a display image including the formed reservation image;

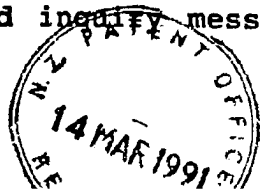
(C) pointing device means for operating the parts arranged in the image displayed by said displaying means;

(D) part operation detecting means for detecting the  
20 part operated by said pointing device means; and

(E) host-to-terminal communicating means for transmitting various messages to said host computer and receiving response data from said host computer, and wherein said reserving means selectively executes the  
25 following steps of, on the basis of part pointing operation effected on the reservation image and detected by said part operation detecting means:

(a) displaying the inputted reservation item contents on the reservation image;

30 (b) forming a reservation status inquiry message for inquiring a reservation status related to the inputted reservation item contents, transmitting the inquiry message to said host computer via said host-to-terminal communicating means, receiving selectable reservation  
35 object information transmitted by said host computer via said host-to-terminal communicating means as response data to the transmitted inquiry message, and displaying



the selectable reservation object information list in the reservation image;

(c) displaying the selected reservation object in the reservation image; and

5 (d) forming a reservation request message for requesting a reservation acquisition related to the selected reservation objects, transmitting the formed reservation request message to said host computer via said host-to-terminal communicating means, receiving  
10 acquired reservation content information transmitted by said host computer via said host-to-terminal communicating device as response data to the reservation acquisition request, and displaying the acquired reservation contents in the reservation image.

15 To achieve the above-mentioned object, the second aspect of the present invention provides a reservation system terminal associated with a host computer for processing reservation status, which comprises:

(A) reserving means for forming a reservation image  
20 including a plurality of parts for inputting contents related to predetermined reservation items, inquiring a reservation status related to the inputted reservation item contents to said host computer, selecting any one of reservation objects, and requesting a reservation  
25 acquisition related to the selected reservation object to said host computer, respectively;

(B) reservation item selecting means for forming a reservation item selection image including a plurality of parts for selecting any one of a plurality of  
30 predetermined selectable contents related to at least one specific item among the reservation items;

(C) displaying means for receiving the reservation image formed by said reserving means and the reservation item selection image formed by said reservation item  
35 selecting means, and forming and displaying a display image including these two images arranged in overlapping condition;



(D) pointing device means for operating the parts arranged in the display image displayed by said displaying means;

(E) part operation detecting means for detecting the  
5 part operated by said pointing device means;

(F) inter-terminal communicating means connected between said reserving means and said reservation item selecting means, for allowing communications therebetween;

10 (G) host-to-terminal communicating means for transmitting various messages to said host computer and receiving response data from said host computer; and

(H) said reservation item selecting means selecting one of the selectable contents on the basis of the part  
15 operation detected by said part operation detecting means in the reservation item selection image, and transmitting the selected contents to said reserving means via said inter-terminal communicating means as inputted contents related to the specific item,

20 and wherein said reserving means selectively executes the following steps of, on the basis of part pointing operation effected on the reservation image and detected by said part operation detecting means:

(a) displaying the inputted reservation item  
25 contents on the reservation image;

(b) forming a reservation status inquiry message for inquiring a reservation status related to the inputted reservation item contents, transmitting the inquiry message to said host computer via said host-to-terminal  
30 communicating means, receiving selectable reservation object information transmitted by said host computer via said host-to-terminal communicating means as response data to the transmitted inquiry message, and displaying the selectable reservation object information list in the  
35 reservation image;

(c) displaying the selected reservation object in the reservation image; and



(d) forming a reservation request message for requesting a reservation acquisition related to the selected reservation objects, transmitting the formed reservation request message to said host computer via said host-to-terminal communicating means, receiving acquired reservation content information transmitted by said host computer via said host-to-terminal communicating device as response data to the reservation acquisition request, and displaying the acquired reservation contents in the reservation image.

To achieve the above-mentioned object, the third aspect of the present invention provides a reservation system terminal associated with a host computer for processing reservation status, which comprises:

(A) reserving means for forming a reservation image including a plurality of parts for inputting contents related to predetermined reservation items, inquiring a reservation status related to the inputted reservation item contents to said host computer, selecting any one of reservation objects, and requesting a reservation acquisition related to the selected reservation object to said host computer, respectively;

(B) reservation editing means for forming a reservation edition image including arranged parts for inputting contents related to predetermined detailed reservation items, and requesting a reservation record preparation related to the inputted detailed reservation item contents and already-acquired reservations to said host computer;

(C) displaying means for receiving the reservation image formed by said reserving means and the reservation edition image formed by said reservation editing means, and forming and displaying a display image including these two images arranged in overlapping condition;

(D) pointing device means for operating the parts arranged in the image displayed by said displaying means;



(E) part operation detecting means for detecting the part operated by said pointing device means;

(F) inter-terminal communicating means connected between said reserving means and said reservation editing means, for allowing communications therebetween; and

(G) host-to-terminal communicating means for transmitting various messages to said host computer and receiving response data from said host computer,

and wherein said reserving means selectively executes the following steps of, on the basis of part pointing operations effected on the reservation image and detected by said part operation detecting means:

(a) displaying the inputted reservation item contents on the reservation image;

(b) forming a reservation status inquiry message for inquiring a reservation status related to the inputted reservation item contents, transmitting the inquiry message to said host computer via said host-to-terminal communicating means, receiving selectable reservation object information transmitted by said host computer via said host-to-terminal communicating means as response data to the transmitted reservation status inquiry message, and displaying the selectable reservation object information list in the reservation image;

(c) displaying the selected reservation object in the reservation image; and

(d) forming a reservation request message for requesting a reservation acquisition related to the selected reservation objects, transmitting the formed reservation request message to said host computer via said host-to-terminal communicating means, receiving acquired reservation content information transmitted by said host computer via said host-to-terminal communicating device as response data to the reservation acquisition request, displaying the acquired reservation contents in the reservation image, and transmitting the



acquired reservation contents to said reservation editing means via said inter-terminal communicating means,

and wherein said reservation editing means selectively executes the following steps of, on the basis  
5 of part pointing operation effected on the reservation edit image and detected by said part operation detecting means; and

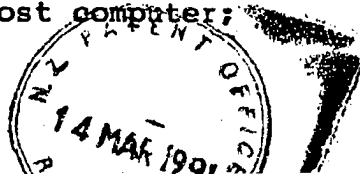
(e) displaying the inputted detailed reservation item contents in the reservation edition image; and

10 (f) forming a reservation record preparation request message for requesting a reservation record preparation related to the inputted detailed reservation item contents and the acquired reservation contents, and transmitting the formed request message to said host  
15 computer via said host-to-terminal communicating means.

To achieve the above-mentioned object, the fourth aspect of the present invention provides a reservation system terminal associated with a host computer for processing reservation status, which comprises:

20 (A) reservation record referring means for forming a reservation record reference image including a plurality of parts for inputting contents related to predetermined reservation record reference items, referring to an already-prepared reservation record related to the  
25 inputted reservation record reference item contents to said host computer, displaying the reference and prepared reservation record, and referring to the reservation record contents related to the selected and prepared reservation record to said host computer;

30 (B) reservation editing means for forming a reservation edition image including a plurality of parts for inputting contents to be changed related to predetermined detailed reservation items, and requesting change in the selected and prepared reservation record  
35 related to the inputted detailed reservation item contents to be changed to said host computer;



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(C) displaying means for receiving the reservation image formed by said reservation record preparing means and the reservation edition image formed by said reservation editing means, and forming and displaying a display image including these two images arranged in overlapping condition;

(D) pointing device means for operating the parts arranged in the display image displayed by said displaying means;

10 (E) part operation detecting means for detecting the part operated by said pointing device means;

(F) inter-terminal communicating means connected between said reservation record referring means and said reservation editing means, for allowing communications  
15 therebetween; and

(G) host-to-terminal communicating means for transmitting various messages to said host computer and receiving response data from said host computer,

and wherein said reservation record referring means  
20 selectively executes the following steps of, on the basis of parts pointing operation effected on the reservation record reference image and detected by said part operation detecting means:

(a) displaying the inputted reservation record  
25 reference item contents on the reservation record reference image;

(b) forming a reservation record reference message for referring to the prepared reservation record reference related to the inputted reservation record  
30 reference item contents, transmitting the reference message to said host computer via said host-to-terminal communicating means, receiving the prepared reservation record information transmitted by said host computer via said host-to-terminal communicating means as response  
35 data to the transmitted reference message, and displaying the prepared reservation record list in the reservation image; and





(c) forming a reservation record reference message for referring to the reservation record contents related to the selected and prepared reservation record, transmitting the formed reservation record reference  
5 message to said host computer via said host-to-terminal communicating means, receiving the selected reservation record content information transmitted by said host computer via said host-to-terminal communicating device as response data to the reservation record reference, and  
10 transmitting the reservation record contents to said reservation recording means via said inter-terminal communicating means,

and wherein said reservation editing means selectively executes the following steps of, on the basis  
15 of part pointing operation effected on the reservation edit image and detected by said part operation detecting means; and

(d) displaying the inputted detailed reservation item contents in the reservation edition image; and

20 (e) forming a reservation record change request message for requesting a change in the selected reservation record related to a change in the inputted detailed reservation item contents, and transmitting the formed change request message to said host computer via  
25 said host-to-terminal communicating means.

To achieve the above-mentioned object, the sixth aspect of the present invention provides a reservation system terminal associated with a host computer for processing reservation status, which comprises:

30 (A) reserving means for forming a reservation image including a plurality of parts for inputting contents related to predetermined reservation items, inquiring a reservation status related to the inputted reservation item contents to said host computer, selecting any one of  
35 reservation objects, and requesting a reservation acquisition related to the selected reservation object to said host computer, respectively;



(B) reservation record referring means for forming a reservation record reference image including a plurality of parts for inputting contents related to predetermined reservation record reference items, referring to an  
5 already-prepared reservation record related to the inputted reservation record reference item contents to said host computer, displaying the reference and prepared reservation record, and referring to the reservation record contents related to the selected and prepared  
10 reservation record to said host computer;

(C) reservation editing means for forming a reservation edition image including arranged parts for inputting contents related to predetermined detailed reservation items, requesting a reservation record  
15 preparation related to the inputted detailed reservation item contents and already-acquired reservations to said host computer, inputting contents to be changed related to predetermined detailed reservation items, and requesting change in the selected and prepared  
20 reservation record related to the inputted detailed reservation item contents to be changed to said host computer;

(D) displaying means for receiving the reservation image formed by said reserving means, the reservation  
25 record reference image formed by said reservation record referring means, and the reservation edition image formed by said reservation editing means, and forming and displaying a display image including these three images arranged in overlapping condition;

30 (E) pointing device means for operating the parts arranged in the image displayed by said displaying means;

(F) part operation detecting means for detecting the part operated by said pointing device means;

(G) inter-terminal communicating means connected  
35 between said reserving means, said reservation record referring means and said reservation editing means, for allowing communications therebetween; and



(H) host-to-terminal communicating means for transmitting various messages to said host computer and for receiving response data from said host computer,

and wherein said reserving means selectively  
5 executes the following steps of, on the basis of the part pointing operation displayed in the reservation image and detected by said part operation detecting means:

(a) displaying the inputted reservation item contents on the reservation image;

10 (b) forming a reservation status inquiry message for inquiring the reservation status related to the inputted reservation item contents, transmitting the inquiry message to said host computer via said host-to-terminal communicating means, receiving selectable reservation  
15 object information transmitted by said host computer via said host-to-terminal communicating means as response data to the transmitted reservation status inquiry message, and displaying the selectable reservation object information list in the reservation image;

20 (c) displaying the selected reservation object in the reservation image; and

(d) forming a reservation request message for requesting a reservation acquisition related to the selected reservation objects, transmitting the formed  
25 reservation request message to said host computer via said host-to-terminal communication means, receiving acquired reservation content information transmitted by said host computer via said host-to-terminal communicating device as response data to the reservation  
30 acquisition request, displaying the acquired reservation contents in the reservation image, and transmitting the acquired reservation contents to said reservation editing means via said inter-terminal communicating means,

and wherein said reservation record referring means  
35 selectively executes the following steps of, on the basis of part pointing operations effected on the reservation



record reference image and detected by said part operation detecting means:

(e) displaying the inputted reservation record reference item contents on the reservation record  
5 reference image;

(f) forming a reservation record reference message for referring to the prepared reservation record reference related to the inputted reservation record reference item contents, transmitting the reference  
10 message to said host computer via said host-to-terminal communicating means, receiving the prepared reservation record information transmitted by said host computer via said host-to-terminal communicating means as response data to the transmitted reference message, and displaying  
15 the prepared reservation record list in the reservation image; and

(g) forming a reservation record reference message for referring to the reservation record contents related to the selected and prepared reservation record,  
20 transmitting the formed reservation record reference message to said host computer via said host-to-terminal communicating means, receiving the selected reservation record content information transmitted by said host computer via said host-to-terminal communicating device  
25 as response data to the reservation record reference, and transmitting the reservation record contents to said reservation recording means via said inter-terminal communicating means,

and wherein said reserving editing means selectively  
30 executes the following steps of, on the basis of part pointing operation on the reservation edit image and detected by said part operation detecting means:

(h) displaying the inputted detailed reservation item contents in the reservation edition image;

35 (i) forming a reservation record preparation request message for requesting a reservation record preparation related to the inputted detailed reservation item



contents and the acquired reservation contents, and transmitting the formed request message to said host computer via said host-to-terminal communicating means; and

5 (j) displaying the inputted detailed reservation item contents in the reservation edition image; and

(k) forming a reservation record change request message for requesting a change in the selected reservation record related to a change in the inputted  
10 detailed reservation item contents, and transmitting the formed change request message to said host computer via said host-to-terminal communicating means.

BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is a block diagram showing a hardware  
15 configuration of an embodiment of the reservation system according to the present invention;

Figs. 2A and B are functional block diagrams of the embodiment shown in Fig. 1;

Fig. 3 is an illustration showing a flight number  
20 reservation image;

Fig. 4 is an illustration showing a date designation image;

Fig. 5 is an illustration showing a domestic city designation image;

25 Fig. 6 is an illustration showing an international city designation image;

Fig. 7 is an illustration showing a reservation edit image;

Fig. 8 is an illustration showing a previous seat  
30 designation image;

Fig. 9 is an illustration showing a seat chart image;

Fig. 10 is an illustration showing a reservation record reference image;

35 Fig. 11 is an illustration showing a hotel reservation image;



Fig. 12 is an illustration showing a tour reservation image;

Fig. 13 is an illustration showing a motion picture display image;

5 Figs. 14A to E are illustrations showing menu images;

Fig. 15 is a flowchart for assistance in explaining the reservation edit process in the initial startup condition;

10 Fig. 16 is a flowchart for assistance in explaining the menu control process when "Display management" is clicked on the menu image;

Figs. 17A to C are flowcharts for assistance in explaining the flight number reservation process;

15 Fig. 18 is a flowchart for assistance in explaining the date designation process when a date designation image is opened on a flight number reservation image;

Figs. 19A and B are flowcharts for assistance in explaining the place name/area designation process when a domestic city designation image is opened on the flight number reservation image;

20 Figs. 20A and B are flowcharts for assistance in explaining the place name/area designation process when an international city designation image is opened on the flight number reservation image;

25 Figs. 21A to G are flowcharts for assistance in explaining the reservation edit process after the reservation has been completed;

Figs. 22A and B are flowcharts for assistance in explaining the previous seat designation process;

30 Figs. 23A and B are flowcharts for assistance in explaining the seat chart process;

Figs. 24A and B are flowcharts for assistance in explaining the reservation record reference process when a flight number reservation record is referred to;

35 Figs. 25A to C are flowcharts for assistance in explaining the hotel reservation process;



Figs. 26A to C are flowcharts for assistance in explaining the tour reservation process;

Figs. 27A and B are flowcharts for assistance in explaining the place name/area designation process when the international city designation image is opened on a tour reservation image; and

Fig. 28 is a flowchart for assistance in explaining the motion picture display process.

#### DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Fig. 1 is a block diagram showing a hardware configuration of a preferred embodiment of the reservation terminal according to the present invention. A terminal (device) 1 is a personal computer in practice, which is composed of a CPU 3, a RAM 5, a ROM 7 for loading a system program, and I/O ports 9 for connecting various peripheral units such as a hard disc unit 11 for loading application programs, a floppy disk unit 13 for loading optional application programs, an AV (audio/visual) unit 15 (e.g. an optical disk deck or video deck), a CRT 17 for displaying images, a MODEM 21 for communicating with a host computer 19 via communication lines, a pointing device 30 such as an electronic pen 23, a mouse 25, etc., and a keyboard 29 for inputting various information not inputted through the pointing device.

Further, it is preferable that the operation system (OS) loaded in the terminal device 1 satisfies the following requirements:

- (1) Multiwindow and multitask processing are both enabled at real time.
  - (2) Operability is excellent and the operating method is standardized.
  - (3) Information signals can be inputted mainly through pointing devices.
  - (4) Processing speed is high.
- Many languages must be processed.



(6) Data, software and hardware are compatible with those of many makers or manufacturers.

(7) Software is high in development efficiency.

Operation systems such as UNIX, OS/2 and BTRON seem  
5 to satisfy the above requirements. However, BTRON  
(Business-The Realtime Operating System Nucleus) can be  
considered as being optimum because the above  
requirements (1), (2), (5) and (6) can be perfectly  
satisfied.

10 Figs. 2(A) and (B) are functional block diagrams  
showing an integrated reservation system terminal for  
reserving flight numbers, hotels and tours by way of  
example, which is configured as shown in Fig. 1.

With reference to these diagrams, an operator can  
15 manipulate the terminal with pointing devices (PD) such  
as the electronic pen 25, the mouse 27, and the keyboard  
29. The major operation can be executed by use of the PD  
30; however, some operation such as proper noun (name,  
place where to make contact, etc.) information entry is  
20 executed through the keyboard 29, because these  
information is difficult to input through the PD 30. By  
use of the PD 30, the cursor position is movable on an  
image displayed on the CRT 17. A number of picture  
images can be displayed on the CRT 17, on each of which  
25 various parts (referred to as buttons, switch selectors,  
scroll selectors, etc.) and tag (or index) window images  
(representative of real window images) are arranged, as  
described later in further detail. Each function  
corresponding to each part is previously determined.  
30 When the operator moves the cursor to any given tag image  
or part by operating the pointing device 30 and further  
the PD 30 is clicked once in the case of parts and twice  
in the case of tag images, absolute coordinates of the  
current cursor position on the image are detected by a  
35 position detection block 31, and further the functions  
corresponding to each part or tag image on which the  
cursor is located are discriminated on the basis of the





detected absolute coordinates by a function discrimination block 33. Here, the operation that the cursor is located on a tag image and then the PD 30 is clicked twice is referred to as "a tag image is double  
5 clicked or double tag image clicks" and the operation that the cursor is located on a part and then the PD 30 is clicked once is referred to as "a part is (once) clicked or single part click", hereinafter.

In response to the discriminated result of the  
10 function discrimination block 33, an image control block 119 controls the display on the CRT 17. In more detail, the image control block 119 is provided with multiwindow processing function such that the arrangement of various image windows are controlled on the basis of the above-  
15 mentioned discriminated result in order to multidisplay a plurality of images given through various processing as described later. In practice, since a plurality of window images are arranged in overlapping condition, although the outermost image arranged in front of the  
20 overlapped images (referred to as in-front image or displays) can be seen all over the image, only a part offset from the in-front image can be seen in the case of other inner images arranged in back (referred to as in-back images or displays). Therefore, the operator can  
25 operate or have an access to tag images and parts displayed in a complete image or in a visible partial portion of in-back images by use of the PD 30. Here, the tag image has an index function in process. When double tag image clicks are discriminated, the image control  
30 block 119 arranges a process window corresponding to the discriminated tag image as an in-front image. (Further, if the corresponding process is not yet started, the process is simultaneously started.) When a visible part of the in-back image is clicked, the image control block  
35 119 displays the clicked image as the in-front image.

An image display block 121 is of bit map graphic mechanism for multidisplaying a plurality of images on



the CRT 17 in accordance with the window arrangement order determined by the image control block 119.

Within the AV device 15, there are arranged optical disks or video tapes for recording color movies (motion pictures) to introduce hotels or tours. As described later, when a tag image of the movie display process is double clicked, the image control block 119 activates the AV device 15 to playback the designated hotel or tour movie and further transmit information for controlling the movie display to the image display block 121, so that the played movie can be displayed in the outermost window as an in-front image.

In the terminal device provided with multiwindow and multitask processing functions, a plurality of independent processes can be executed in parallel fashion. These processes are flight number reservation process, date designation process 37, place name/area designation process, reservation edition process, previous seat designation process, seat chart display process, reservation record reference process, hotel reservation process, motion picture display process, tour reservation process, etc. Each of these processes is provided with a function for forming each specific image. These images are multiwindow processed by the image control block 119 and then multidisplayed on the CRT 17.

The function is provided such that information inputted by the operator or from the host computer can be transmitted to other process, where necessary. This function is shown in Fig. 2(A) as an inter-process communication block 123, and can be realized by storing information required for plural processes in a memory area used in common for these processes. The inter-process communication block 123 is functioning at all times as the background operation of each process.

In addition to the above-mentioned processes, there is provided host-to-terminal communication process 125,



menu control process 32, color arrangement control process 34, etc.

The host-to-terminal communication process 125 transmits messages in the various processes to the host computer 19 and returns the related response data from the host computer 19 to the process. In other words, this process enables normal communications between the terminal 1 and the host computer 19. This host-to-terminal communication process 125 always exists as an independent process in the background of the various process, which is operated when the independent process transmits messages to the host computer 19.

The menu control process 32 is started when a menu button (not shown) provided for the PD 30 is depressed. This process 32 transmits a menu image as described later to the image control block 119 so that the image control block 119 displays the menu image as the in-front image. Since a number of function items are displayed on this menu image, any required functions can be selected by the clicking operation.

The color arrangement control process 34 is started when "color arrange" is clicked on the menu image, to control the image control block 119 so that the colors of the in-front image, background and parts can be changed. When the color arrangement is appropriately selected, it is possible to divert or relax the operator himself or herself.

The above-mentioned process will be described hereinbelow in detail, respectively with reference to Figs. 3 to 14.

The flight number reservation process is the one for performing the reservation procedure of flight numbers, and provided with various functions shown by a flight number reservation image display block 35, a reservation status inquiry message transmit/receive block 41, a reservation status display block 43, a reservation



message transmit/receive block 45, and a reservation result display block 47.

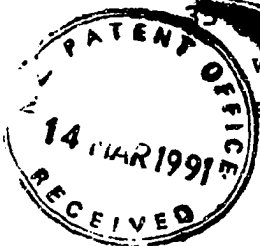
The flight number reservation image display block 35 forms a flight number reservation image as shown in Fig. 3 and sends the image to the image control block 119. At the header position of this flight number reservation image, a pictogram 131 (referred to as "flight number reservation pictogram") is arranged. When the double clicks of this flight number reservation pictogram 131 is discriminated, the flight number reservation process 35 is suspended, and the flight number reservation image window is deleted by the image control block 119. The flight number reservation image includes three tag images of a domestic city designation tag image 133, an international city designation tag image 135 and a date designation tag image 137. In general, a tag image has an index function for representing a process, as already explained. When a pictogram within a tag image is double clicked (referred to as "a tag image is double clicked"), the process corresponding to the tag image is started and the corresponding image is displayed in front. Therefore, when the date designation tag image 137 is double clicked, the date designation process 37 is started, so that a date designation image as shown in Fig. 4 is sent to the image control block 119 to display the date designation image in front. When the domestic city designation tag image 133 or the international city designation tag image 135 is double clicked, the place name/area designation process 39 is started and a domestic city designation image as shown in Fig. 5 or an international city designation image as shown in Fig. 6 is sent to the image control block 119 to display the domestic city designation image or the international city designation image in front.

35 In the date designation process 37, a date can be designated on the date designation image. In the place name/area designation process 39, a section between the



departure and the arrival can be designated on the domestic or international city designation image. The date and section designated at these processes are automatically transmitted to the flight number image display block 35 via the inter-process communication block 123. On the flight number reservation image as shown in Fig. 3, there are arranged date boxes 139, 141 and 143 in which a date is displayed and section boxes 145 and 147 in which a flight section is displayed. Further, a box indicates generally a part in which an input date (letter or numeral) is displayed. In these date boxes 139, 141 and 143, the today's date is initially displayed in default of data. However, when a desired date is given via the inter-process communication block 123, the designated date is displayed in these boxes. Further, a designated flight section given via the inter-process communication block 123 is displayed in the departure and arrival boxes 145 and 147. Further, a succeeding day button 149 and a preceding day button 151 are additionally arranged. Here, the button generally indicates a part for requesting a predetermined operation at the process. When the succeeding day button 149 or the preceding day button 151 is clicked, a date displayed in the date boxes 139, 141 and 143 is changed to a succeeding or preceding day. Therefore, when a date close to today can be displayed by using the succeeding button 149 and the preceding button 151 without dependence upon the date designation image process 37. Further, a succeeding flight number button 153 is provided for the flight section. Therefore, when this button 153 is clicked, the two displays in the departure box 145 and the arrival box 147 are reversed, so that this operation is convenient when going and returning flight numbers are reserved in sequence.

After the date and section have been designated, when a transmit button 155 is clicked, the reservation status inquiry message transmit/receive block 41 forms a



reservation status inquiry message of the designated date and section and sends it to the host-to-terminal communication process 125. This host-to-terminal communication process 125 transmits this message to the  
5 host computer 19. In response to this reservation status inquiry message, the host computer 19 returns the reservation status data indicative of vacant seat flight numbers to the host-to-terminal communication process 125, and then to the reservation status inquiry message  
10 transmit/receive block 41. After having determined the received data to be correct data, the reservation status inquiry message transmit/receive block 41 gives the received data to a reservation status display block 43.

After having transformed the reservation status data  
15 into an understandable language (e.g. Japanese language), the reservation status display block 43 gives the transformed data language to a reservation image block 35. Thereupon, a list of vacant seat flight numbers is displayed in Japanese language in a reservation status  
20 scroll selector 171 in the flight number reservation image. The reservation status data sent from the host computer 19 at a time usually correspond to those written on a single page of the reservation status scroll selector 171. Therefore, there exists the case where it  
25 is impossible to transmit all the data indicative of all the vacant seat flight numbers at a time. In this case, a succeeding page button 159 in the flight number reservation image is clicked. Then, the remaining data transmit request is given to the host computer 19 in the  
30 same route as described above, so that reservation status data on the succeeding page can be transmitted from the host computer 19. In general, the scroll selector displays a list of letter data. This list can be scrolled by moving the PD 30 along bars displayed on the  
35 right side of the image. Further, when one data in the list is clicked, the clicked data can be inputted. Therefore, whenever the reservation status scroll



selector 17 is scrolled, the list not seen on the succeeding page becomes visible. Further, when one of the vacant seat flight number on the list is clicked, the clicked flight number is designated as a reserved object.

5 In this connection, where a flight number required to be reserved is determined at the beginning, it is unnecessary to inquire the reservation status. In this case, if the flight number designation button 161 is clicked, since the flight number box 163 is displayed.

10 When a flight number code is inputted through the keyboard 29, the flight number is displayed in the flight number box 63, so that the flight number designation can be completed.

In the flight number reservation image, there are  
15 arranged a class switch selector 153 for selecting a boarding class and a seat number switch selector 154 for selecting the number of seats. In general, in the switch selector, a plurality of switches are arranged so as to correspond to a plurality of data to be selected.

20 Therefore, a switch is clicked, a data corresponding to the clicked switch can be designated. "Y" is initially designated in the class switch selector 153 in default, and "1" is initially designated in the seat number switch selector 154 in default. However, when another switch is  
25 clicked, another class or another number of seats can be designated. After designated, the switch of the designated class or the number of seats is displayed in color different for other non-designated switches. Further, when "other" is designated in the class switch  
30 selector 153, a class input box 167 appears. Here, when any given class code is inputted through the keyboard 29, the inputted class code is displayed in the class input box 162, so that any given class can be designated.

Further, in the flight number reservation image,  
35 there are provided an ARNK button 165 and an OPEN button for designating specific reservation modes. When the ARNK button 165 is clicked, ARNK reservation can be



designated. When the OPEN button 167 is clicked, a company code input box 169 appears. In this case, when any given airline (i.e. aviation company) code is inputted through the keyboard 29, the inputted airline code is displayed in the company code input box 169, so that open reservation for the displayed airline can be designated.

As described above, after details of the date, section, class, the number of seats, etc. have been designated, when the transmit button 155 is clicked, a message panel (not shown) for confirming whether the flight number reservation is required or not on the flight number reservation image is displayed in front. Therefore, when the confirmation button in this panel is clicked, the reservation message transmit/receive block 45 forms a message for reserving the designated details and sends the formed message to the host-to-terminal communication process 125 to transmit the formed message to the host computer 19. When a data indicative of reservation acquisition is returned from the host computer 19, this data is sent to the reservation message transmit/receive block 45 via the host-to-terminal communication process 125. After checked that the received data is not an erroneous data, the reservation message transmit/receive block 45 transmits the data to the reservation result display block 47.

The reservation result display block 47 transmits the analyzed result of the received data, that is, the acquired reservation contents to a reservation edition image display block 51 via the inter-process communication block 123, and simultaneously displays a reservation acquisition and a succeeding operation instruction in Japanese, for instance in the message box 172 on the flight number reservation image.

Further, an interrupt button 157 is provided on the flight number reservation image. When this interrupt button 157 is clicked, all the processing so far executed





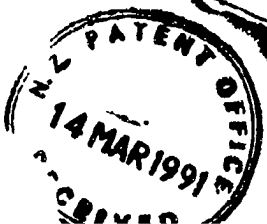
are all disregarded; all the data display is deleted on the image; and an interrupt message is transmitted to the host computer 19 via the host-to-terminal communication process 125. In response to the interrupt message, the  
5 host computer 19 deletes the reservation acquired by the processing already executed up to now.

The date designation process 37 will be described in detail hereinbelow. This process 37 forms the date designation image as shown in Fig. 4 and sends it to the  
10 image control block 119. The size of this date designation image window is determined a little smaller than that of the flight number reservation image shown in Fig. 3.

In the date designation image, there are provided a  
15 calendar switch selector 173 representative of the current month and a calendar switch selector 175 representative of the next month. When either one of the calendar switch selectors 173 and 175 is clicked, the date data corresponding to the clicked switch are sent to  
20 the flight number reservation image display block 35 via the inter-process communication block 123, and displayed in the date boxes on the flight number reservation image in the same way as described already.

In the date designation image, there are arranged a  
25 date designation pictogram 177 for deleting the date designation image (the date designation process 37 is interrupted), a flight number reservation tag image 179 for displaying the flight number reservation image in front, a domestic city designation tag image 181 for  
30 displaying the domestic city designation image in front, an international city designation tag image 183 for displaying the international city designation image in front, and an interrupt button 185 for interrupting all the above-mentioned designations.

35 The place name/area designation process 39 will be described hereinbelow in detail.

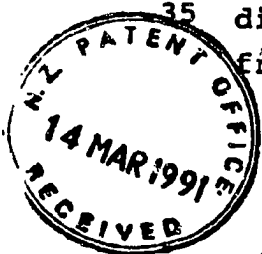


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This process 39 forms the domestic city designation image as shown in Fig. 5 and the international city designation image as shown in Fig. 6, and sends these images to the image control block 19. The size of each  
5 of these domestic and international city designation images is also determined a little smaller than that of the flight number reservation image as shown in Fig. 3.

In the domestic city designation image as shown in Fig. 5, there are provided main airport buttons 187 to  
10 207 arranged on a domestic map, an airport scroll selector 209 representative of all the domestic airport lists, a departure/arrival switch selector 211 for selecting a departure airport or an arrival airport, and departure and arrival boxes 213 and 214 for displaying  
15 departure and arrival airport, respectively. After a departure or arrival airport has been selected by the switch selector 211, when any one of the main airport buttons 187 to 207 or any one of the airport names in the scroll selector 209 is clicked, the airport name is  
20 displayed in the departure box 213 or the arrival box 214. Simultaneously, the airport data are sent to the flight number reservation image display block 35 via the inter-process communication block 123 to display the airport data in the departure box 145 or the arrival box  
25 147 in the flight number reservation image. Further, when a code display button 215 is clicked, an airport name displayed in each box is changed into a code display composed of three alphabetic letters.

Further, in the domestic city designation image,  
30 there are provided a domestic city designation pictogram 217 for deleting the domestic city designation image, a flight number reservation tag image 219 for displaying the flight number reservation image in front, an international city designation tag image 220 for displaying the international city designation image in  
35 front, a date designation tag image 221 for displaying

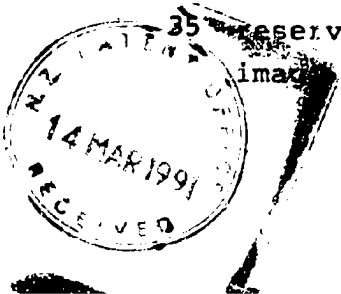


the date designation image in front, and an interrupt button 223 for transmitting an interrupt message.

In the international city designation image as shown in Fig. 6, there are provided scroll selectors 223 to 229 for displaying the essential city/international airport lists classified according to areal groups in the world, a switch selector 231 for selecting one of departure and arrival, and boxes 233 and 235 for displaying a departure place name and an arrival place name, respectively. The scroll selectors 223 to 229 are used to designate flight sections in the reservation of international flight numbers or in the designation of cities for tour reservation. Further, when one of the scroll selectors 223 to 229 is scrolled, another area list including Hawaii, North America, South America, etc. (not shown) can be displayed. This area list is used to designate areas instead of cities when tours are reserved.

Additionally, in the international city designation image, there are provided an international city designation pictogram 237, a flight number reservation tag image 239, a domestic city designation tag image 241, a date designation tag image 243, an interrupt button 245 and a code display button 247. The detailed description of the functions of these parts is omitted herein, because of substantially the same as the similar parts provided in other images.

Further, as described later, the date designation image, the domestic city designation image and the international city designation image can be used when hotels or tours are reserved or when the reservation record is required, in addition to the flight number reservation. In these cases, data representative of dates, sections, cities, etc. are given to a reservation record reference image display block 71, a hotel reservation image display block 87, a tour reservation image display block 103, etc. via the inter-process



communication block 123 to display these data in predetermined boxes, respectively.

Reservation edition process will be described hereinbelow. In this process, information about  
5 passengers who acquired reservations such as names, places where to make contact, etc. are inputted to write out change, add, and delete these reservation records. This reservation edition process includes various functions represented by a reservation edition image  
10 display block 51, a reservation item input/output block 53, a reservation record preparation message transmit/receive block 55, and a reservation record display block 57. Further, at the initial conditions after the terminal has been started, only the reservation  
15 edition process is automatically started, and the other processes can be started when each tag image is clicked on the reservation edition image as explained below.

The reservation edition image display block 51 forms a reservation edition image as shown in Fig. 7 and sends  
20 it to the image control block 119. This reservation edition image includes a flight number reservation tag image 251, a hotel reservation tag image 253, a tour reservation tag image 255, a reservation reference tag image 257, a previous seat reservation tag image 259, and  
25 a movie tag image 261. When either one of these tag images is double clicked, the process corresponding to the double clicked tag image is started (at the initial condition when the terminal is activated), and the image corresponding to the process is displayed in front.  
30 Since this reservation edition image window is determined to be the largest size among other images, even if any other image is displayed in front, a part of the reservation edition image (at least the header position at which a reservation edition pictogram 249 is indicated) is always visible. Therefore, whenever  
clicked, it is possible to display the reservation edition image in front.



The reservation contents acquired at each reservation process are transmitted to the reservation edition image display block 51 via the inter-process communication block 123. These reservation contents are  
5 listed on and displayed by a reservation content scroll selector 295 in the reservation edition image.

In the reservation edition image, there are provided a scroll selector 271 as a part for inputting reservation items, a name input box 273, an age input box 275, a sex  
10 distinction switch selector 277, an infant button 279, a contact place (where to make contact), ranking switch selector 281, two contact place input boxes 283 and 285, two contact place sort switch selectors 283 and 289, a passenger (or applicant) name input box 291, and a  
15 personal relationship switch selector 293. These parts are controlled by the reservation item input/output block 53 according to the operation of the keyboard 29 or the PD 30. In more detail, when the name input box 273 is clicked, this box is displayed by a thick black frame.  
20 Subsequently, if a passenger name is inputted through the keyboard 29, the name is displayed in the name input box 273. Thereafter, when age input box 275 is displayed by a thick black frame. Subsequently, if an age is inputted through the keyboard 29, the age is displayed in the age  
25 input box 275. When the sex distinction switch selector 277 and the infant button 279 are clicked, respectively, the sex distinction of the passenger and the infant passenger are designated. All the passenger information designated as described above are listed and displayed by  
30 the passenger scroll selector 271. Further, when one of the contact place boxes 283 and 285 is clicked, the clicked box is displayed by a thick black frame. Subsequently, if a telephone number is inputted through the keyboard 29, the input telephone number is displayed  
35 in the contact place input box displayed by a thick black frame. Since two place input boxes 283 and 285 are arranged, two contact places can be designated. When the



contact place switch selectors 287 and 289 are clicked, two sorts of contact places can be designated. The contact place switch selector 281 is used to change the place where to make contact. When clicked, one of place  
5 boxes required to be changed is selected. After the passenger (or applicant) input box 291 has been clicked, if a passenger (or applicant) name is inputted through the keyboard 29, the name is displayed in the box 291. When the personal relationship select switch 293 is  
10 clicked, the personal relationship between the applicant and the passenger can be designated.

After all the reservation items have been designated as described above, when a transmit button 297 is clicked, a confirmation panel (not shown) is displayed in  
15 the reservation edition image in the same way as in the flight number reservation. When a confirmation button arranged therewithin is clicked, the reservation record preparation message transmit/receive block 55 prepares a reservation record with respect to the designated  
20 reservation items, and the message for modification or addition where necessary and sends the prepared record to the host computer 19 via the host-to-terminal communication process 125. When data indicative of reservation record preparation completion is returned  
25 from the host computer 19, the data is inputted to the reservation record preparation message transmit/receive block 55 via the host-to-terminal communication process 125. The reservation record preparation message transmit/receive block 55 transmits the data (if not  
30 erroneous) to the reservation result display block 47. The reservation result display block 47 analyzes the input data, and displays a message indicative of the reservation record preparation on the reservation edition image. Thereafter, when a completion button 299 is  
35 further clicked, a completion message indicative of the reservation record preparation completion is sent to the host computer 19 via the same route as described above.



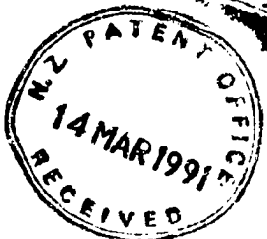
Since data indicative of a reservation record number are returned from the host computer 19, this reservation record number is displayed in a reservation record number box 263 on the reservation edition image. Further, when  
5 a transmit button is not clicked but only a completion button 299 is clicked, the communications between the host computer 19 and the terminal are executed collectively. Further, when a previous seat designation process as described later is started, the above-  
10 mentioned reservation contents and reservation record number are transmitted from the reservation result display block 47 to a previous seat designation image display block 59 (described later) via the inter-process communication block 123.

15 In the reservation edition image, there are additionally provided a reservation edition pictogram 249 for deleting the reservation edition image, preparation date boxes 265 and 267 for displaying the reservation record preparation date, an available period box 269 for  
20 displaying the available period of the reserved record, an interrupt button 301 for transmitting an interrupt message, a confirmation button 302 for transmitting a reference message to confirm the reservation contents, etc.

25 Further, it is also possible to change, delete and add the reservation record by use of the reservation edition image, in addition to the reservation record preparation. In these cases, however, it is necessary to select a function item of change, delete, or add,  
30 respectively on the menu image.

The previous seat designation process will be described hereinbelow. In this process, a seat of the reserved flight number can be designated. The process includes the functions shown by a previous seat  
35 designation image display block 59, a designation item input/output block 61, and a seat status transmit/receive

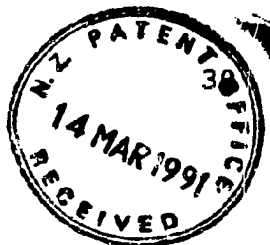
63.



The previous seat designation image display block 59 forms a previous seat designation image as shown in Fig. 8 and sends it to the image control block 119. This image includes a passenger scroll selector 311 and a reserved flight number scroll selector 313. The passenger scroll selector 311 displays a list of the passenger names transmitted from the reservation edition process, and the reserved flight number scroll selector 313 displays a list of the reserved flight numbers transmitted from the same reservation edition process.

Prior to the seat designation, the seat designation status is first inquired. In this case generally, one passenger and one reserved flight number are selected by click operation from the passenger scroll selector 311 and the reserved flight number scroll selector 313, and then the seat chart button 307 is clicked. Therefore, since the seat chart display process is started and data indicative of the selected passenger and the reserved flight number are transmitted to the seat chart display process, the seat status transmit/receive block 63 prepares an inquiry message of the seat designation status about the selected and reserved flight number and sends it to the host computer 19 via the host-to-terminal communication process 125. When data indicative of the seat designation status are returned from the host computer 19, the data are transmitted to the seat status transmit/receive block 63 via the host-to-terminal communication process 125. The seat status transmit/receive block 63 transmits the received data (if erroneous) to the previous seat designation image display block 59. The previous seat designation image display block 59 further transmits the received seat designation status data to the seat chart display process.

As described later, when the seat chart display process is started, a seat chart image as shown in Fig. 9 is displayed in front to allow the operator to designate





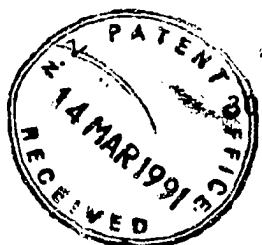
a seat on this image. Data indicative of the designated seat are sent to the seat designation image display block 59 via the inter-process communication block 123. The seat designation image display block 59 displays the  
5 flight number whose seats are designated, the passenger names, and the designated seat numbers on the previous seat scroll selector 315.

In the seat designation image, there are additionally provided a seat designation pictogram 305  
10 for deleting the seat designation image, and an interrupt button 309 for transmitting an interrupt message.

The seat chart display process will be described hereinbelow. This process is provided with functions shown by a seat chart image display block 65, a seat  
15 designation message transmit/receive block 67 and a seat designation result display block 69.

The seat chart image display block 65 forms a seat chart image as shown in Fig. 9 and sends it to the image control block 119. In this image, there are provided a  
20 passenger/designated seat scroll selector 319 for displaying a list of passengers and the designated seats and a flight number box 325 for displaying the flight number. The above-mentioned selected passenger names and flight number transmitted from the previous seat  
25 designation process are displayed on the seat designation scroll selector 319 and the flight number box 325, respectively. Simultaneously, a seat chart 327 of the airplane model used for the reserved flight number is also displayed.

In the seat chart 327, seat buttons 329 indicative of seats, respectively are arranged. In these seat buttons, the occupied seats are displayed in color different from that of the unoccupied seat on the basis of the seat designation status data transmitted from the  
35 previous seat designation process. Further, various information useful or required for seat selection decision (e.g. smoking seats, non-smoking seats, doorway

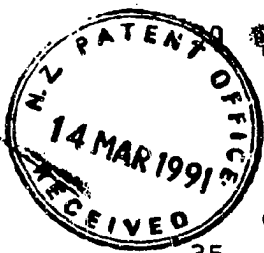


positions) is displayed in different colors and letters so as to be distinguishable.

To designate a seat, a seat button 329 required to designate within the seat chart 327 is clicked and then a  
5 transmit button 321 is clicked. Then, since a confirmation panel is displayed in front in the same way as in the flight number reservation, when the confirmation button is clicked, the seat designation message transmit/receive block 67 prepares a message  
10 indicative of the seat designation for the clicked seat button (329) number, and sends it to the host computer 19 via the host-to-terminal communication process 125. When data indicative of the seat designation completion are returned from the host computer 19, the data are  
15 transmitted to the seat designation message transmit/receive block 67 via the host-to-terminal communication process 125. The seat designation message transmit/receive block 67 gives the received data (if not erroneous) to the seat designation result display block  
20 69. The seat designation result display block 69 analyzes the received data; displays the designated seat number in the passenger/designated seat scroll selector 319 on the seat chart image 327; changes the color of the designated seat button 329 in the seat chart 327;  
25 displays a message indicative of seat designation completion in Japanese; and transmits the received data to the previous seat designation image display block 59 via the inter-process communication block 123.

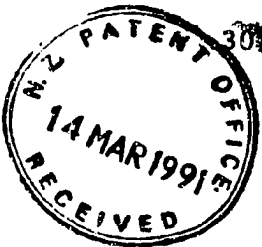
In the seat chart image, there are additionally provided a seat chart pictogram 317 for deleting this image and an interrupt button 323 for transmitting an interrupt message.

The reservation record reference process will be described hereinbelow. This process is the one for  
35 referring to the previously prepared reservation record, and provided with various functions shown by a reservation record reference image display block 71, a



reservation item input/output block 73, a reservation record list display block 81, a reservation reference message transmit/receive block 83, and a reservation record display block 85.

5       The reservation record reference image display block 71 forms a reservation record reference image as shown in Fig. 10 and sends it to the image control block 119. In this image, there are provided a reference method select switch 333, a reservation record number designation box 10 334, a name designation box 335, a flight number designation box 337 and two date designation boxes 339 and 341 as parts for designating the reservation record contents required for reference. These parts are controlled by the reservation item input/output block 73 15 according to the operation through the PD 30 and the keyboard 29. In more detail, when the reference method select switch 333 is clicked, the method is selected as to whether the reservation record is referred to on the basis of a reservation record number or another item. 20 When a reservation record number is selected, the reservation record designation box 334 is displayed by a thick frame. Subsequently, when a reservation record number is inputted through the keyboard 29, the input number is displayed in the reservation record designation box 25 334. Further, when a date, a flight number or a name is selected and further when a name designation box 335 or a flight number designation box 337 is clicked, the clicked box is displayed by a thick frame. Subsequently, when a passenger name or a flight number is inputted 30 through the keyboard 29, the inputted item is displayed in the corresponding box shown by a thick frame. In the case of the date designation boxes 339 and 341, when the date designation tag image 351 is double clicked, the date designation image as shown in Fig. 4 is displayed in 35 front. Therefore, if the date is designated on this image, the designated date data are transmitted via the



inter-process communication block 123 and then displayed in the date designation boxes 39 and 41.

Further, it is unnecessary to designate all the three items of passenger name, flight number and date, because the reserved record can be referred to by only a passenger name or both a passenger name and a date.

After the reservation items have been designated as described above, when the transmit button 43 is clicked, the reservation record reference message transmit/receive block 83 forms a message indicative of a reservation record reference as to the designated reservation item, and sends it to the host computer 19 via the host-to-terminal communication process 125. The response data from the host computer 19 are transmitted to the reservation record reference message transmit/record block 83 via the host-to-terminal communication process 125. When a plurality of reservation record numbers are included in the response data, the reservation record reference message transmit/record block 83 transmits the response data to the reservation record list display block 81. The reservation record list display block 81 displays a plurality of passenger names (or both passenger names and dates) in the reservation record in the reservation record candidate scroll selector 347 as a list on the reservation record reference image.

When a passenger name of one reservation record is clicked in a list of the reservation record candidate scroll selector 347 and further the transmit button 343 is clicked, the reservation record reference message transmit/receive block 83 forms a reservation record reference message of the clicked reservation record number and sends it to the host computer 19.

When the reference is made on the basis of a reservation record number at the beginning; when one reservation record number is designated from the list and then the reference is made again; or when there exists only one reservation record corresponding to the



designated name or flight number, only a single reservation record data is included in the response data from the host computer 19. In this case, therefore, the reservation record reference message transmit/receive  
5 block 83 transmits the received response data to the reservation record display block 85. The reservation record display block 85 transmits the data to the reservation edit image display block 51 via the inter-process communication block 123, and simultaneously  
10 controls the image control block 119 to display the reservation edit image in front. As a result, the reservation record contents are displayed on the reservation edit image. The reservation record can be changed, cancelled or added on this reservation edit  
15 image.

In the reservation record reference image, there are provided a reservation record reference pictogram 331 for deleting this image, an interrupt button 345, a succeeding page button 353 and a redisplay button 347 for  
20 transmitting a message of displaying above list again.

The hotel reservation process will be described hereinbelow. This process is the one for reserving hotels and includes various functions shown by a hotel reservation image display block 87, a hotel reservation  
25 status inquiry message transmit/receive block 93, a reservation status display block 95, a reservation message transmit/receive block 99 and a hotel reservation result display block 101. These functions are basically the same as the similar functions of the flight number  
30 reservation process, except that there are some different points due to difference in reserved object between hotel and flight number. Therefore, only the different points are explained hereinbelow.

The hotel reservation image display block 87 forms a  
35 hotel reservation image as shown in Fig. 11. In this image, the following peculiar parts for hotel reservation are provided. A city input box 357 displays a city name



where hotels exists. This hotel designation can be performed by displaying the afore-mentioned domestic or international city designation image in front. An IN/OUT switch selector 371 is a parts for selecting any one of  
5 check-in date designation and check-out date designation. A designated check-in or check-out date is displayed in date boxes 373, 375, 377 and 379. These designations can be made on the afore-mentioned date designation image displayed in front. Room code/number select switches 381  
10 and 391 are used to designate any one of room types and the number of rooms. The left side select switch 381 is used to designate single bed rooms, and the right side select switch 391 is used to designate double bed rooms. Room code select switches 383 and 393 are used to select  
15 a room type (charge). When "other" is selected with respect to the room type, since room type boxes 384 and 394 appear, the operator can input any given room type code through the keyboard 29. Room number boxes 385 and 395 are used to display the number of rooms designated  
20 through the keyboard 29 in usual. In these boxes, "1" is initially set in default of the number of rooms. Increment/decrement buttons 387, 389, 397 and 399 are used to increase or decrease the number of designated rooms. Location switch selector 401 is used to select an  
25 environment at which hotels exist. Sort select switch 403 is used to select a sort of hotel, and grade select switch 405 is used to select a grade of hotel. Other requirements for hotel can be inputted through the keyboard 29 and displayed in an additional information  
box 407.

Among the above-mentioned items, when a city name and a date are designated at the minimum and further the transmit button 359 is clicked, the hotel reservation status inquiry message transmit/receive block 93 inquires  
35 the hotel reservation status of the designated items to the host computer 19. The reservation status data are returned from the host computer 19 to the reservation



status display block 95, so that the hotel names, grades, room types (room charge), etc. are displayed as a list in a hotel list scroll selector 409.

When a required hotel is selected within the hotel  
5 list scroll selector 409 and further the transmit button 359 is clicked, a confirmation panel is displayed. By clicking a confirmation button therewithin, the reservation message transmit/receive block 99 transmits the reservation message to the host computer 19. The  
10 response data are sent from the host computer 19 to the hotel reservation result display block 10 to display a message of reservation acquisition in a message box 411. Simultaneously, since the response data are sent to a reservation edit image display block 51, the reserved  
15 hotel contents are displayed in the reservation content scroll selector 295 located at the lower part of the reservation edit image. To allow this display to be visible, the vertical dimension of the hotel reservation image is determined smaller (by that of the reservation  
20 content scroll selector 295) than the reservation edit image. Further, the vertical dimension of the tour reservation image (described hereinbelow) is also determined smaller in the same way.

The tour reservation process will be described  
25 hereinbelow. This process is basically the same as the flight number reservation process, similarly to the above-mentioned hotel reservation process. Only the different points will be explained hereinbelow.

A tour reservation image display block 103 forms a  
30 tour reservation image as shown in Fig. 12. In this image, the following peculiar parts are provided. A departure/period/price switch selector 415 is used to select anyone of the day of departure, the period of tour, and the price of tour. Date boxes 417 and 419  
35 display a designated day of departure. This departure day can be designated on the date designation image. A period box 421 displays a designated period of tour and a



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price box 427 displays a designated price of tour. These designations can be made through the keyboard 29 in usual. Increment/decrement buttons 423 and 425 increases or decreases the period of tour. Increment/decrement  
5 button 429 and 431 increases or decreases the price of tour. City select switches 433 and 451 are used to select any one of a departure city and four visit cities at the maximum. A departure city box 433 displays a designated departure city. Four visit city boxes 437,  
10 439, 453 and 455 display designated visit cities. These designations can be made in the international city designation image. A room type switch selector 457 is used to select a room type. When "other" is selected, since a room type box 459 appears, a desired room type  
15 code can be entered through the keyboard 29. A person number box 461 displays a number of designated tourists inputted through the keyboard 29 in usual. The number of tourists "1" is initially set in default. Increment/decrement switches 463 and 465 increases or  
20 decreases the number of tourists. A flight pattern switch selector 467 is used to select any one of three flight patterns. When "other" is selected, since a flight pattern box 469 appears, a desired flight pattern can be set through the keyboard 29. An additional  
25 information box 471 is used to input additional information such as special requirements through the keyboard 29.

Among the above-mentioned items, when the day of departure and the visit cities are designated at the  
30 minimum, it is possible to inquire the reservation status clicking the transmit button 441. The reservation status returned from the host computer 19 is displayed in a tour list scroll selector 473. In this list, tour codes, tour names, hotels, rooms, meals, flight patterns, prices, etc. are displayed.  
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When a desired tour is selected from the tour list and then the transmit button 441 is clicked, a





reservation message is transmitted to the host computer 19. When response data are returned from the host computer 19, a message of reservation acquisition is displayed in a message box 475, and the response data are  
5 transmitted to the reservation edit image display block 51.

Motion picture display process 97 will be explained hereinbelow. After a desired hotel or tour has been selected from the hotel or tour list in the hotel or tour  
10 reservation image, when a visible part of the reservation edit image is clicked, the reservation edit image is displayed in front. Subsequently, when a motion picture (movie) tag image 261 in the reservation edit image is clicked, the motion picture process 97 is started. To  
15 this motion picture process 97, a hotel or tour code selected just now is transmitted via the inter-process communication block 123. The motion picture process 97 sends the selected code and a motion picture display image as shown in Fig. 13 to the image control block 119.  
20 This image control block 119 controls the AV device 15 to playback the hotel or tour motion picture corresponding to the selected code, so that the motion picture display image is arranged in front and further the corresponding motion picture is displayed in a motion picture area 479  
25 within the motion picture display image. In this case, where some display modes such as image division, mosaic processing, picture standstill, etc. have previously been selected in a menu image (described later), the image control block 119 controls the motion picture so as to be  
30 displayed in the selected display mode. The motion picture display image can be deleted when a motion picture pictogram 477 is double clicked.

Finally, the menu control process 32 will be explained hereinbelow. This process is started when the menu button of the PD 30 is depressed, forms menu images as shown in Fig. 14A, and transmits these to the image  
control block 119, so that the menu image is displayed in

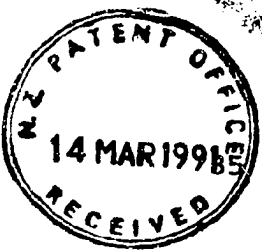


front according to the cursor position. In this image, there are displayed a plurality of items (called parent items) such as "Reservation", "Change", "Execution", "Supplementary devices", "Color arrangement", "Display management" etc. When either one of these parent items is clicked, some items (called child items) are displayed on the side of the parent item as shown in Figs. 4B-14D. Some major parent items will be explained hereinbelow in more detail.

10 Fig. 14B shows an example of display obtained when the parent item "Reservation" has been clicked. The child items are arranged in the order of "Next flight number", "Transmit", "Interrupt", and "Completion". When each of the child items is clicked, each corresponding  
15 operation can be executed in almost the same way as when the next flight number button, transmit button, interrupt button, and completion button displayed in the process image displayed just behind this menu image are clicked, respectively.

20 Fig. 14C shows an example of display obtained when the parent item "Change" is clicked. In this case, "Delete" and "Insert" are displayed as child items. For instance, in the case where this menu image is on the reservation edit image, if a reservation item required to  
25 be deleted is clicked in the reservation image and thereafter the child item "Delete" is clicked, it is possible to delete the reservation item. Further, when the passenger scroll selector 271 or the reservation content scroll selector 295 is clicked in the reservation  
30 edit image and thereafter the child item "Insert" is clicked, it is possible to add the passengers or reservation by use of the reservation edit image.

Fig. 14D shows an example obtained when the parent item "Color arrangement" is clicked. In this case, the color arrangement control process 34 is started to form a panel as shown in Fig. 14D. The formed panel is displayed on the lower right side of the CRT image, for



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instance. In this panel, there are provided 16 background color samples in boxes 481 and 483 and 16 color depth (shade) samples in boxes 487. When any desired color sample and color depth sample are clicked, a selected background color is displayed in an area 485. Here, if a confirmation button 491 is clicked, the color of the background image is changed into the selected background color for practical color confirmation. Subsequently, when a completion button 493 is clicked, the color of the background image is fixed to the selected background color. However, when a delete button 489 is clicked, this panel is deleted.

Fig. 14E shows an example of child items obtained when "Display management" is clicked. The process names whose window is currently open are arranged in order as child items. When either one of these process names is clicked, the image control block 119 displays the clicked process image in front. This function is convenient for displaying any required small image in front as when the small image is not visible behind a large image and further there exists no tag image representative of the required small image in the large image.

Figs. 15 to 27 show flowcharts showing a series of reservation procedure processed in each of the above-mentioned processes, for assistance in understanding the function and the operation of the embodiment of the reservation system terminal according to the present invention in more clearness.

One preferred embodiment of the present invention has been explained by way of example as described above. Without being limited thereto, however, the present invention can be applied not only to a reservation system for only flight number, hotel or tour, but also to the reservation system for other transport facilities, theaters, restaurants, etc. Further, it is also possible to omit the afore-mentioned some process according to the required reservation objects and the number of

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observation items. In the case of the most simple system, for instance, the reservation process and the host-to-terminal communication process may be sufficient. Further, it is also possible to incorporate one of the  
5 above-mentioned various process with a conventional system. Furthermore, the composition of the images can be modified in various ways.

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WHAT WE CLAIM IS:

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1. A reservation system terminal associated with a host computer for processing reservation status, which comprises:

(A) reserving means (35, 41, 43, 45, 47) for forming a reservation image, said reservation image including a first part for inputting data related to predetermined reservation items, a second part for inquiring of the host computer a reservation status related to the inputted data concerning the predetermined reservation items, a third part for selecting a reservation option from one or more reservation options provided by the host computer, and a fourth part for requesting of the host computer a reservation acquisition related to the selected reservation option;

(B) displaying means (119, 121, 17) for receiving the reservation images formed by said reserving means, and forming and displaying a display image including the formed reservation image;

(C) pointing device means (30) for operating the parts arranged in the image displayed by said displaying means;

(D) part operation detecting means (31, 33) for detecting the part operated by said pointing device means; and

(E) host-to-terminal communicating means (125) for transmitting various messages to said host computer and receiving response data from said host computer,

and wherein said reserving means selectively executes the following steps of, on the basis of part pointing operation effected on the reservation image and detected by said part operation detecting means:

(a) displaying the inputted data concerning the predetermined reservation items on the reservation image;

(b) forming a reservation status inquiry message for inquiring of the host computer a reservation status relating to the inputted data concerning the predetermined reservation items, transmitting the inquiry message to said host computer via said host-to-terminal communicating means, receiving selectable

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reservation option information transmitted by said host computer via said host-to-terminal communicating means as response data to the transmitted inquiry message, and displaying the selectable reservation option information in the reservation image;

(c) forming a reservation request message for requesting a reservation acquisition related to said selected reservation option, transmitting the formed reservation request message to said host computer via said host-to-terminal communicating means, receiving acquired reservation information transmitted by said host computer via said host-to-terminal communicating means as response data to the reservation acquisition request, and displaying the acquired reservation information in the reservation image.

2. The reservation system terminal of claim 1, which further comprises motion picture playback means (15, 19) for playing back a previously recorded motion picture related to said selected reservation option, said displaying means simultaneously displaying the reservation image formed by said reserving means and the motion picture played back by said motion picture playback means on the display image in an overlapping arrangement condition.

3. A reservation system terminal associated with a host computer for processing reservation status, which comprises:

(A) reserving means (35, 41, 43, 45, 47) for forming a reservation image, said reservation image including a first part for inputting data related to predetermined reservation items, a second part for inquiring of the host computer a reservation status related to the inputted data concerning the predetermined reservation items, a third part for selecting a



reservation option from one or more reservation options provided by the host computer, and a fourth part for requesting of the host computer a reservation acquisition related to the selected reservation option;

(B) reservation item selecting means (37, 39) for forming a reservation item selection image, said reservation item selection image including a plurality of parts for selecting any one of a plurality of predetermined selectable data package options related to at least one specific item among the reservation items;

(C) displaying means (119, 121, 17) for receiving the reservation image formed by said reserving means and the reservation item selection image formed by said reservation item selecting means, and forming and displaying a display image which includes the two images arranged in overlapping condition;

(D) pointing device means (30) for operating the parts arranged in the display image displayed by said displaying means;

(E) part operation detecting means (31, 33) for detecting the part operated by said pointing device means;

(F) inter-process communicating means (123) connected between said reserving means and said reservation item selecting means, for allowing communications therebetween;

(G) host-to-terminal communicating means (125) for transmitting various messages to said host computer and receiving response data from said host computer; and

(H) said reservation item selecting means being adapted for selecting one of the selectable data package options on the basis of the part operation detected by said part operation detecting means in the reservation item selection image, and <sup>for</sup>transmitting the data package option <sup>selection</sup> / to said reserving means via said inter-process communicating means as inputted data related to the specific item,

and wherein said reserving means selectively executes the following steps of, on the basis of part



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pointing operation effected on the reservation image and detected by said part operation detecting means:

(a) displaying the inputted data concerning the predetermined reservation items on the reservation image;

(b) forming a reservation status inquiry message for inquiring of the host computer a reservation status relating to the inputted data concerning the predetermined reservation items, transmitting the inquiry message to said host computer via said host-to-terminal communicating means, receiving selectable reservation option information transmitted by said host computer via said host-to-terminal communicating means as response data to the transmitted inquiry message, and displaying the selectable reservation option information in the reservation image;

(c) forming a reservation request message for requesting a reservation acquisition related to said selected reservation option, transmitting the formed reservation request message to said host computer via said host-to-terminal communicating means, receiving acquired reservation ——— information transmitted by said host computer via said host-to-terminal communicating device as response data to the reservation acquisition request, and displaying the acquired reservation information in the reservation image.

4. The reservation system terminal of claim 3, wherein said inter-process communicating means is a memory unit accessible from both said reserving means and said reservation item selecting means in order to store information to be transmitted/received between said two means.

5. The reservation system terminal of claim 3 or 4, wherein said displaying means comprises image controlling means (119) for controlling/an arrangement of the





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reservation image and the reservation item selection image according to <sup>a</sup>part operation detected by said part operation detecting means.

6. A reservation system terminal associated with a host computer for processing reservation status, which comprises:

(A) reserving means (35, 41, 43, 45, 47) for forming a reservation image, said reservation image including a first part for inputting data related to predetermined reservation items, a second part for inquiring of the host computer a reservation status related to the inputted data concerning the predetermined reservation items, a third part for selecting a reservation option from one or more reservation option provided by the host computer, and a fourth part for requesting of the host computer a reservation acquisition related to the selected reservation options;

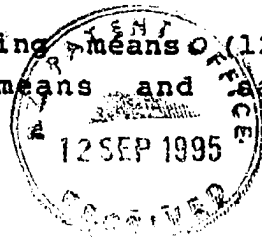
(B) reservation editing means (51, 53, 55, 57) for forming a reservation edition image including arranged parts for inputting data related to predetermined detailed reservation items, and requesting a reservation record preparation related to the inputted data concerning the predetermined detailed reservation items and already acquired reservations to said host computer;

(C) displaying means (119, 121, 17) for receiving the reservation image formed by said reserving means and the reservation edition image formed by said reservation editing means, and forming and displaying a display image including these two images arranged in overlapping condition;

(D) pointing device means (30) for operating the parts arranged in the image displayed by said displaying means;

(E) part operation detecting means (31, 33) for detecting the part operated by said pointing device means;

(F) inter-process communicating means (123) connected between said reserving means and said



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reservation editing means, for allowing communications therebetween; and

(G) host-to-terminal communicating means (125) for transmitting various messages to said host computer and receiving response data from said host computer,

and wherein said reserving means selectively executes the following steps of, on the basis of part pointing operation effected on the reservation image and detected by said part operation detecting means:

(a) displaying the inputted data concerning the predetermined reservation items on the reservation image;

(b) forming a reservation status inquiry message for inquiring of the host computer a reservation status relating to the inputted data concerning the predetermined reservation items, transmitting the inquiry / inquiry message to said host computer via said host-to-terminal communicating means, receiving selectable reservation option information transmitted by said host computer via said host-to-terminal communicating means as response data to the transmitted reservation status inquiry message, and displaying the selectable reservation option information in the reservation image;

(c) forming a reservation request message for requesting a reservation acquisition related to said selected reservation option, transmitting the formed reservation request message to said host computer via said host-to-terminal communicating means, receiving acquired reservation ——— information transmitted by said host computer via said host-to-terminal communicating means as response data to the reservation acquisition request, displaying the acquired reservation contents in the reservation image, and transmitting the acquired reservation information to said reservation editing means via said inter-process communicating means,



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and wherein said reservation editing means selectively executes the following steps of, on the basis of part pointing operation effected on the reservation edit image and detected by said part operation detecting means;

(e) displaying the inputted data related to the predetermined detailed reservation items in the reservation edition image; and  
(f) forming a reservation record preparation request message for requesting a reservation record preparation related to the inputted data related to the predetermined detailed reservation items and the acquired reservation information, and transmitting the formed request message to said host computer via said host-to-terminal communicating means.

7. The reservation system terminal of claim 6, wherein said inter-process communicating means is a memory unit accessible from both said reserving means and said reservation editing means in order to store information to be transmitted/received between said two means.

8. The reservation system terminal of claim 6 or 7, wherein said displaying means comprises image controlling means (119) for controlling/<sup>an</sup> arrangement of the reservation image and the reservation edition image according to part operation detected by said a part operation detecting means.

9. A reservation system terminal associated with a host computer for processing reservation status, which comprises:

(A) reservation record referring means (71, 73, 81, 83, 85) for forming a reservation record reference image, said record reference image including a first part for inputting data related to predetermined reservation record reference items so as to form a selected reservation record, a second part for referring to the host computer for an already-prepared reservation record relating to the



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data concerning the inputted reservation record reference items, a third part for displaying the selected and prepared reservation records, and a fourth part for referring to the host computer said selected reservation record and said prepared reservation record;

(B) reservation editing means (51, 53, 55, 57) for forming a reservation edition image including a plurality of parts for inputting data to be changed that is related to <sup>the</sup>predetermined detailed reservation items, and requesting change in the selected and prepared reservation records related to the inputted detailed reservation items \_\_\_\_\_ to be changed in said host computer;

(C) displaying means (119, 121, 17) for receiving the reservation image formed by said reservation record preparing means and the reservation edition image formed by said reservation editing means, and forming and displaying a display image including these two images arranged in overlapping condition;

(D) pointing device means (30) for operating the parts arranged in the display image displayed by said displaying means;

(E) part operation detecting means (31, 33) for detecting the part operated by said pointing device means;

(F) inter-process communicating means (123) connected between said reservation record referring means and said reservation editing means, for allowing communications therebetween; and

(G) host-to-terminal communicating means (125) for transmitting various messages to said host computer and receiving response data from said host computer,

and wherein said reservation record referring means selectively executes the following steps of, on the basis of part pointing operations effected on the reservation record reference image and detected by said part operation detecting means:



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(a) displaying the inputted <sup>data related to the</sup> reservation record reference items \_\_\_\_\_ on the reservation record reference image;

(b) forming a reservation record reference message for referring to the <sup>already</sup> prepared reservation record reference related to the inputted <sup>data concerning the</sup> reservation record reference items, \_\_\_\_\_ transmitting the reference message to said host computer via said host-to-terminal communication means, receiving the prepared reservation record information transmitted by said host computer via said host-to-terminal communicating means as response data to the transmitted reference message, and displaying the prepared reservation information in the reservation image; and

(c) forming a reservation record reference message for referring to <sup>reservation record data</sup> related to said selected and <sup>said already</sup> prepared reservation transmitting the formed reservation record reference message to said host computer via said host-to-terminal communicating means, receiving \_\_\_\_\_ reservation record \_\_\_\_\_ information transmitted by said host computer via said host-to-terminal communicating device as response data to the reservation record reference, and transmitting the reservation record information to said reservation recording means via said inter-process communicating means,

and wherein said reservation editing means selectively executes the following steps of, on the basis of part pointing operation effected on the reservation edit image and detected by said part operation detecting means;

(d) displaying the inputted data concerning the reservation items in the reservation edit image; and

(e) forming a reservation record change request message for requesting a change in the selected reservation record related to a change in the inputted data concerning the reservation items, and transmitting the



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formed change request message to said host computer via said host-to-terminal communicating means.

10. The reservation system terminal of claim 9, wherein said inter-process communicating means is a memory unit accessible from both said reservation record referring means and said reservation editing means in order to store information to be transmitted/received between said two means.

11. The reservation system terminal of claim 9 or 10, wherein said displaying means comprises image controlling means (119) for controlling <sup>an</sup> arrangement of the reservation record reference image and the reservation edition image according to <sup>a</sup> part operation detected by said part operation detecting means.

12. A reservation system terminal associated with a host computer for processing reservation status, which comprises:

(A) reserving means (35, 41, 43, 45, 47) for forming a reservation image, said reservation image including a first part for inputting data related to predetermined reservation items, a second part for inquiring of the host computer a reservation status related to the inputted data concerning the predetermined reservation items, a third part for selecting a reservation option from one or more reservation option provided by the host computer, and a fourth part for requesting of the host computer a reservation acquisition related to the selected reservation option;

(B) reservation record referring means (71, 73, 81, 83, 85) for forming a reservation record reference image, said record reference image including a first part for inputting data related to predetermined reservation record reference items so as to form a selected reservation record, a second part for referring to the host computer for an already-prepared reservation record relating to the



data concerning the inputted reservation record reference items, a third part for displaying the selected and prepared reservation records, and a fourth part for referring to the host computer said selected reservation record and said prepared reservation record;

(C) reservation editing means (51, 53, 55, 57) for forming a reservation edition image including arranged parts for inputting data related to predetermined detailed reservation items, requesting a reservation record preparation related to the inputted data concerning the predetermined detailed / <sup>reservation items</sup> and already-acquired reservations to said host computer, inputting data changes            related to <sup>the</sup> / predetermined detailed reservation items, and requesting / <sup>of the host computer a</sup> change in the selected and prepared reservation records related to the inputted detailed reservation items to be changed;

(D) displaying means (119, 121, 17) for receiving the reservation image formed by said reserving means, the reservation record reference image formed by said reservation record referring means, and the reservation edition image formed by said reservation editing means, and forming and displaying a display image including these three images arranged in overlapping condition;

(E) pointing device means (30) for operating the parts arranged in the image displayed by said displaying means;

(F) part operation detecting means (31, 33) for detecting the part operated by said pointing device means;

(G) inter-process communicating means (123) connected between said reserving means, said reservation record referring means and said reservation editing means, for allowing communications therebetween; and

(H) host-to-terminal communicating means (125) for transmitting various messages to said host computer and for receiving response data from said host computer,



and wherein said reservation means selectively executes the following steps of, on the basis of the part pointing operation effected on the reservation image and detected by said part operation detecting means;

(a) displaying the inputted data concerning the predetermined reservation items on the reservation image;

(b) forming a reservation status inquiry message for inquiring <sup>of the host computer</sup> the reservation status related to the inputted data concerning the predetermined reservation items, transmitting the inquiry <sup>message</sup> to said host computer via said host-to-terminal communicating means, receiving selectable reservation option information transmitted by said host computer via said host to terminal communicating means as a response to the transmitted enquiry message in the reservation image;

(c) displaying the selected reservation option in the reservation image; and

(d) forming a reservation request message for requesting a reservation acquisition related to said selected reservation option, transmitting the formed reservation request message to said host computer via said host-to-terminal communication means, receiving acquired reservation \_\_\_\_\_ information transmitted by said host computer via said host-to-terminal communicating means as response data to the reservation acquisition request, displaying the required reservation information in the reservation image, and transmitting the acquired reservation information to said reservation editing means via said inter-process communicating means,

and wherein said reservation record referring means selectively executes the following steps of, on the basis of part pointing operations effected on the reservation record reference image and detected by said part operation detecting means;





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(e) displaying the inputted <sup>data related to the</sup> reservation record reference items \_\_\_\_\_ on the reservation record reference image;

(f) forming a reservation record reference message for referring to the already-prepared reservation records reference related to the inputted data concerning the reservation record reference items, transmitting the reference message to said host computer via said host-to-terminal communicating means, receiving the prepared reservation record information transmitted by said host computer via said host-to-terminal communicating means as response data to the transmitted reference message, and displaying the prepared reservation information in the reservation image; and

(g) forming a reservation record reference message for referring to reservation record data related to said selected and already-prepared reservation record transmitting the formed reservation record reference message to said host computer via said host-to-terminal communicating means, receiving \_\_\_\_\_ reservation record \_\_\_\_\_ information transmitted by said host computer via said host-to-terminal communicating device as response data to the reservation record reference, and transmitting the reservation record information to said reservation recording means via said inter-process communicating means,

and wherein said reservation editing means selectively executes the following steps of, on the basis of part pointing operation on the reservation edit image and detected by said part operation detecting means;

(h) displaying the inputted data related to the predetermined detailed reservation items in the reservation edition image;

(i) forming a reservation record preparation request message for requesting a reservation record preparation related to the inputted data related to the predetermined detailed reservation items and the acquired reservation information, and transmitting the formed request message to said host



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computer via said host-to-terminal communicating means;  
and

(j) displaying the inputted data related to the  
predetermined detailed reservation items in the reservation edition image;  
and (k) forming a reservation record change request  
message for requesting a change in said selected  
reservation record \_\_\_\_\_

\_\_\_\_\_, and transmitting the  
formed change request message to said host computer via  
said host-to-terminal communicating means.

13. The reservation system terminal of claim 12,  
wherein said inter-process communicating means is a  
memory unit accessible from any of said reserving means,  
reservation record referring means and said reservation  
editing means in order to store information to be  
transmitted/received among said three means.

14. The reservation system terminal of claim 12 or  
13, wherein said displaying means comprises image  
controlling means (119) for controlling/arrangement of  
the reservation image, the reservation record reference  
image and the reservation edition image according to a part  
operation detected by said part operation detecting  
means.

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By their Attorneys  
BALDWIN, SON & CAREY



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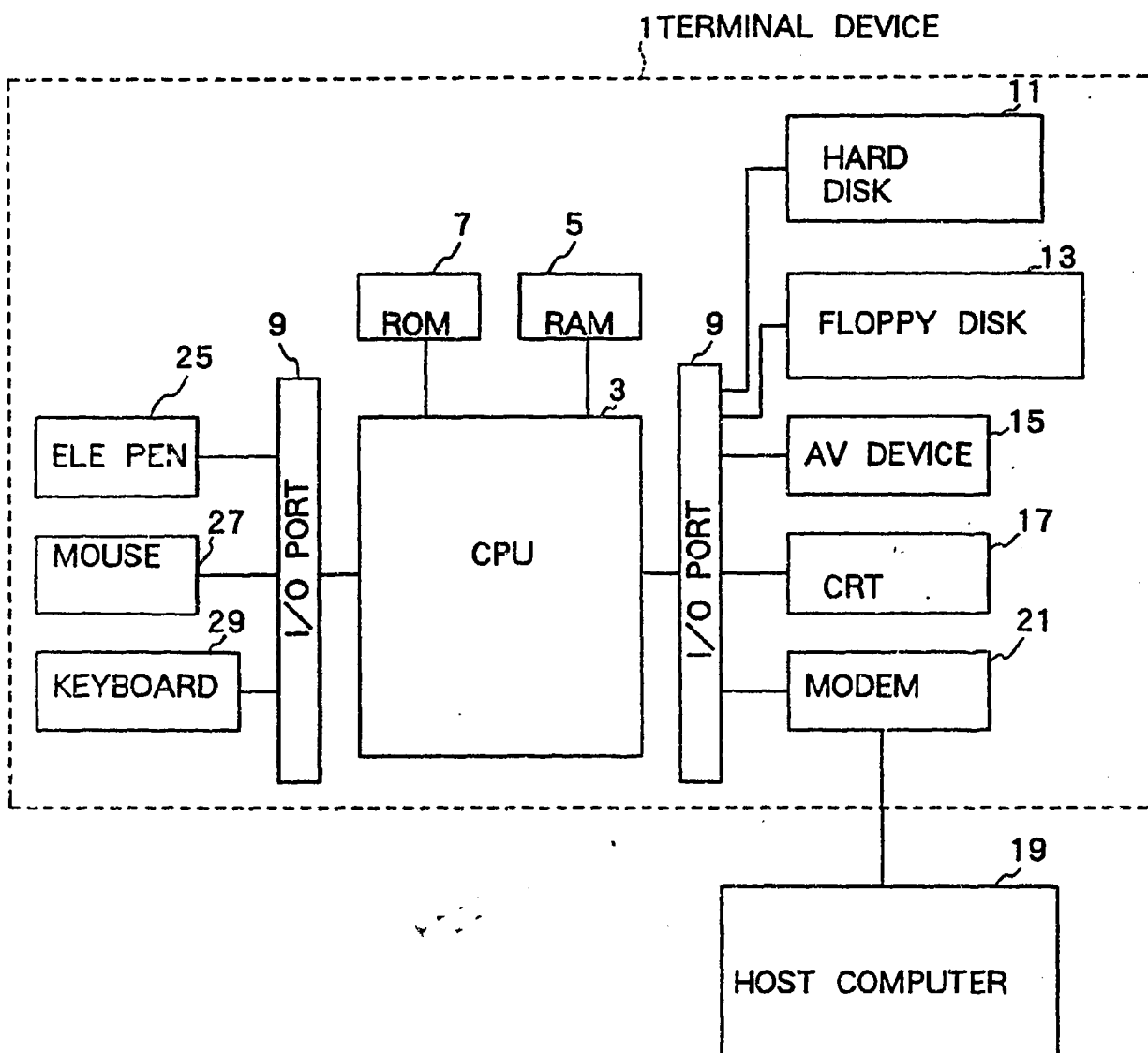


FIG.1

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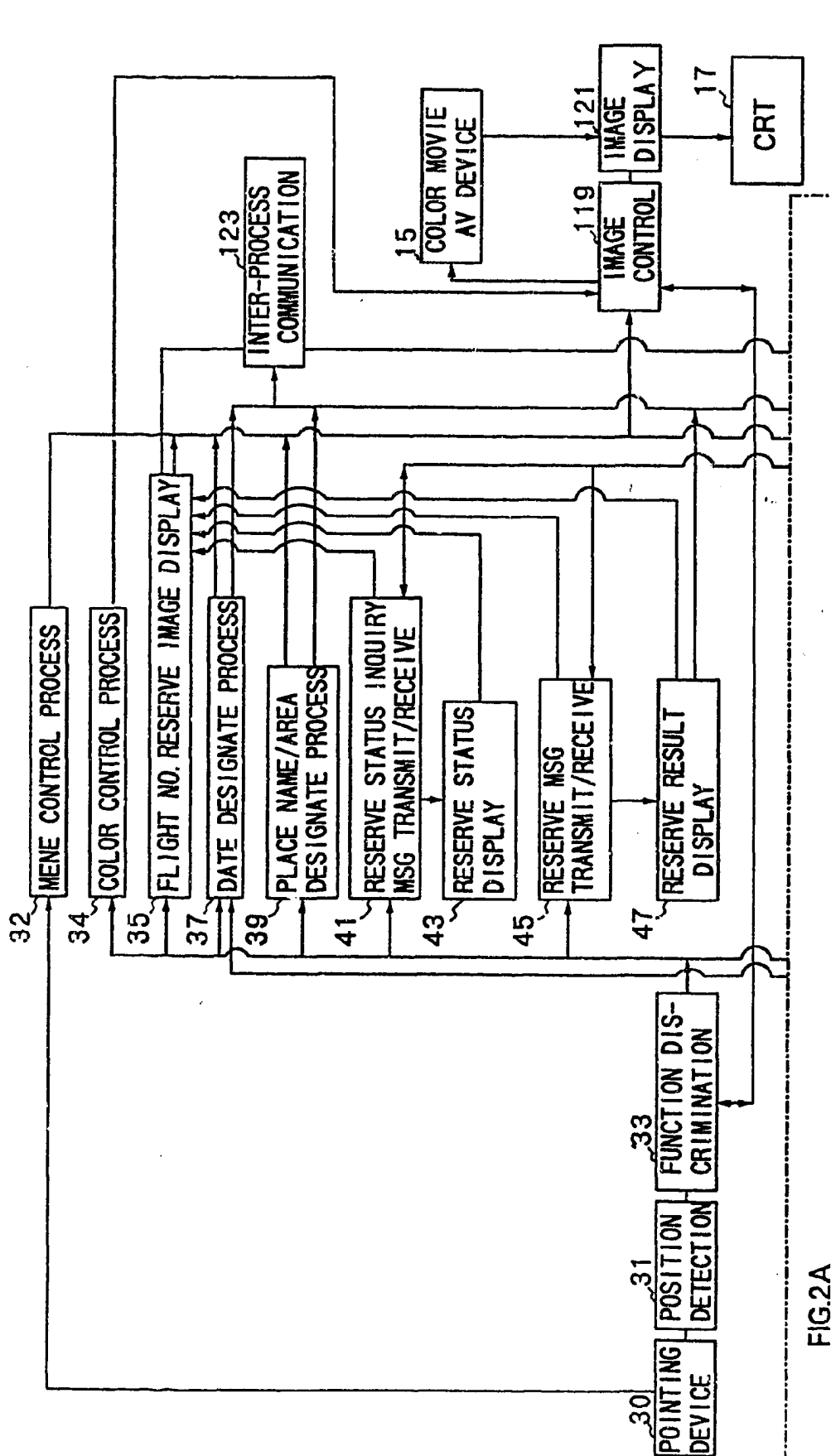


FIG.2A. I

FIG.2A

FIG.2A. I
FIG.2A II

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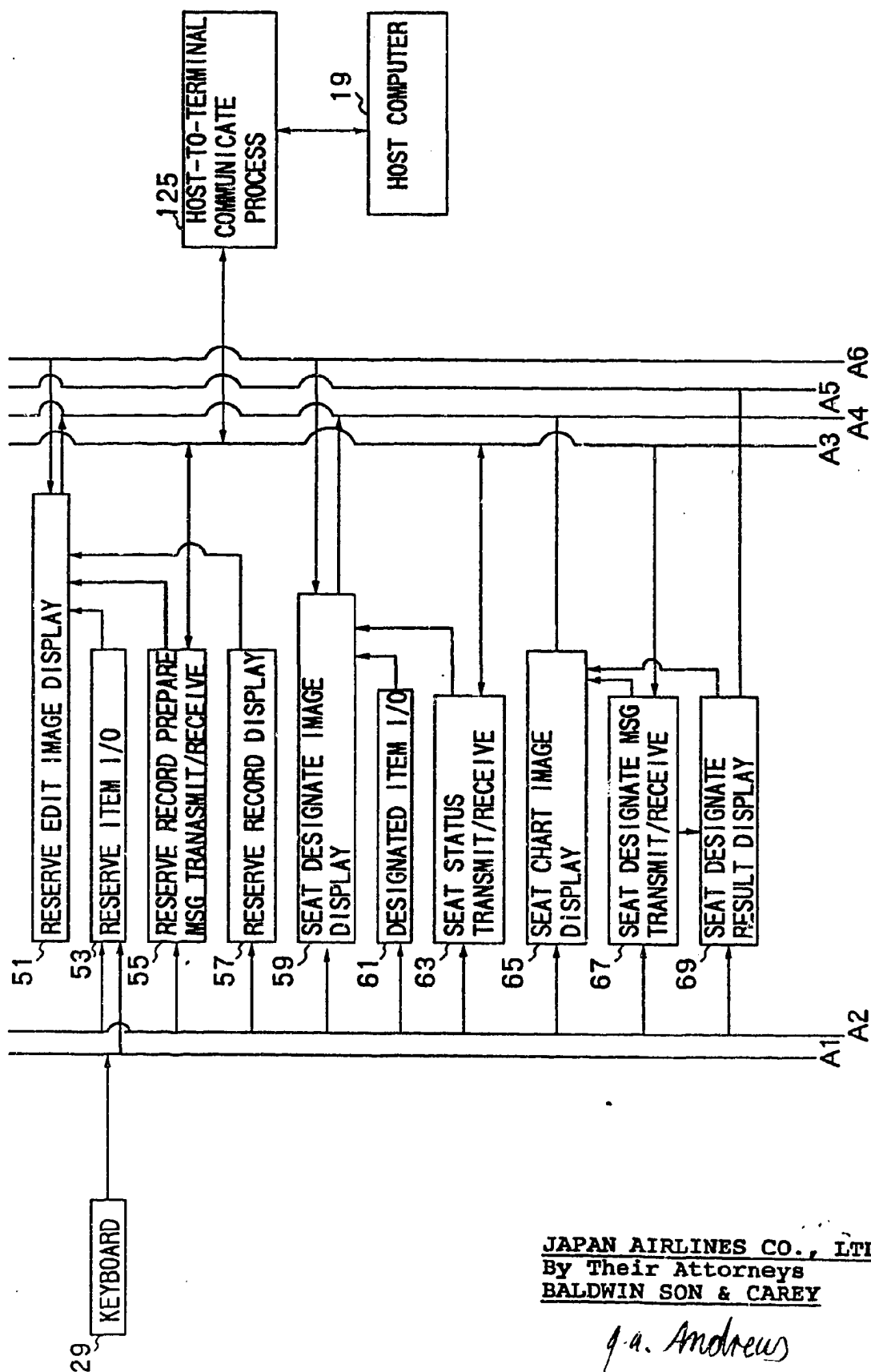


FIG.2A II

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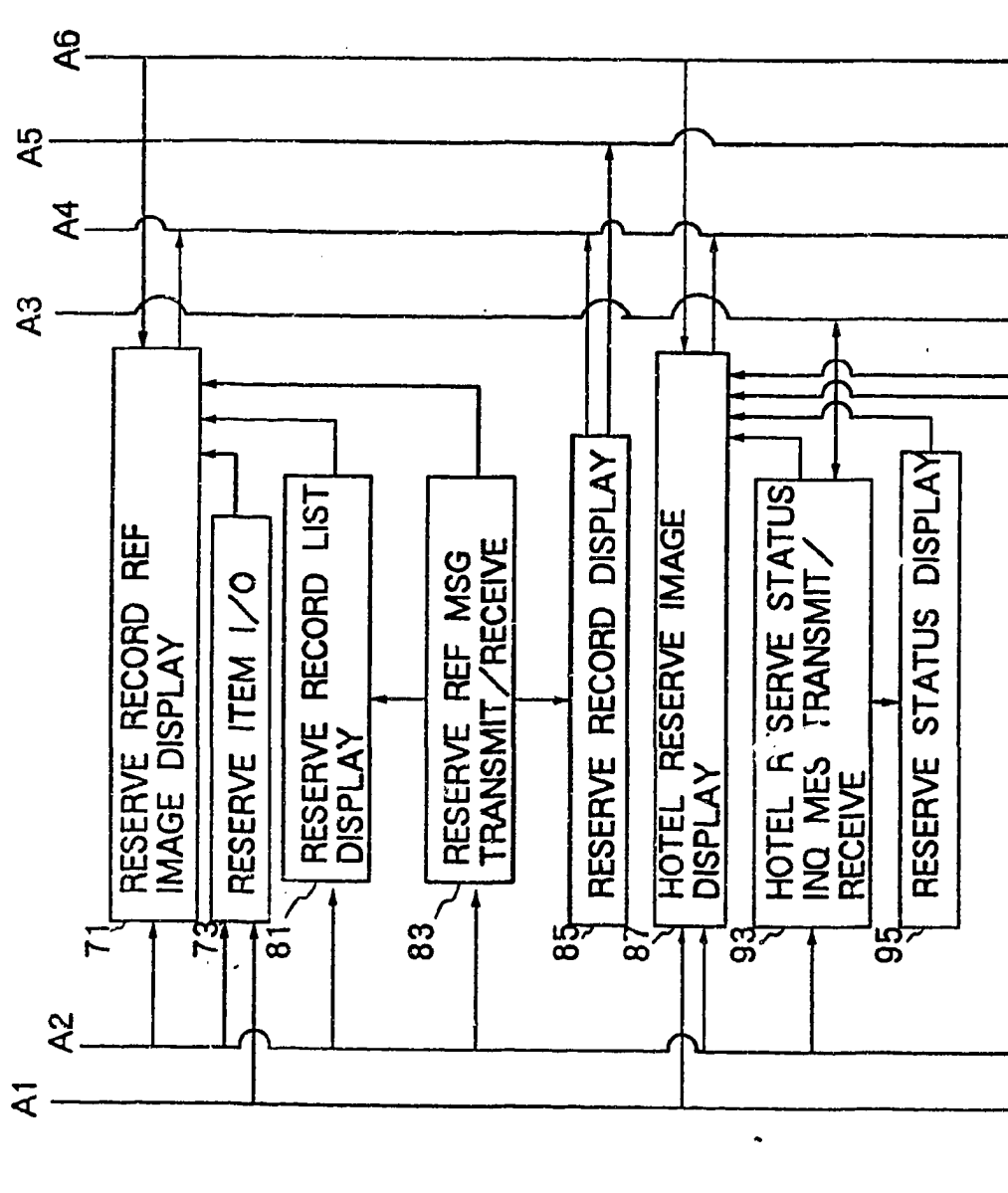


FIG.2B I

FIG.2B

FIG.2B I

FIG.2B II

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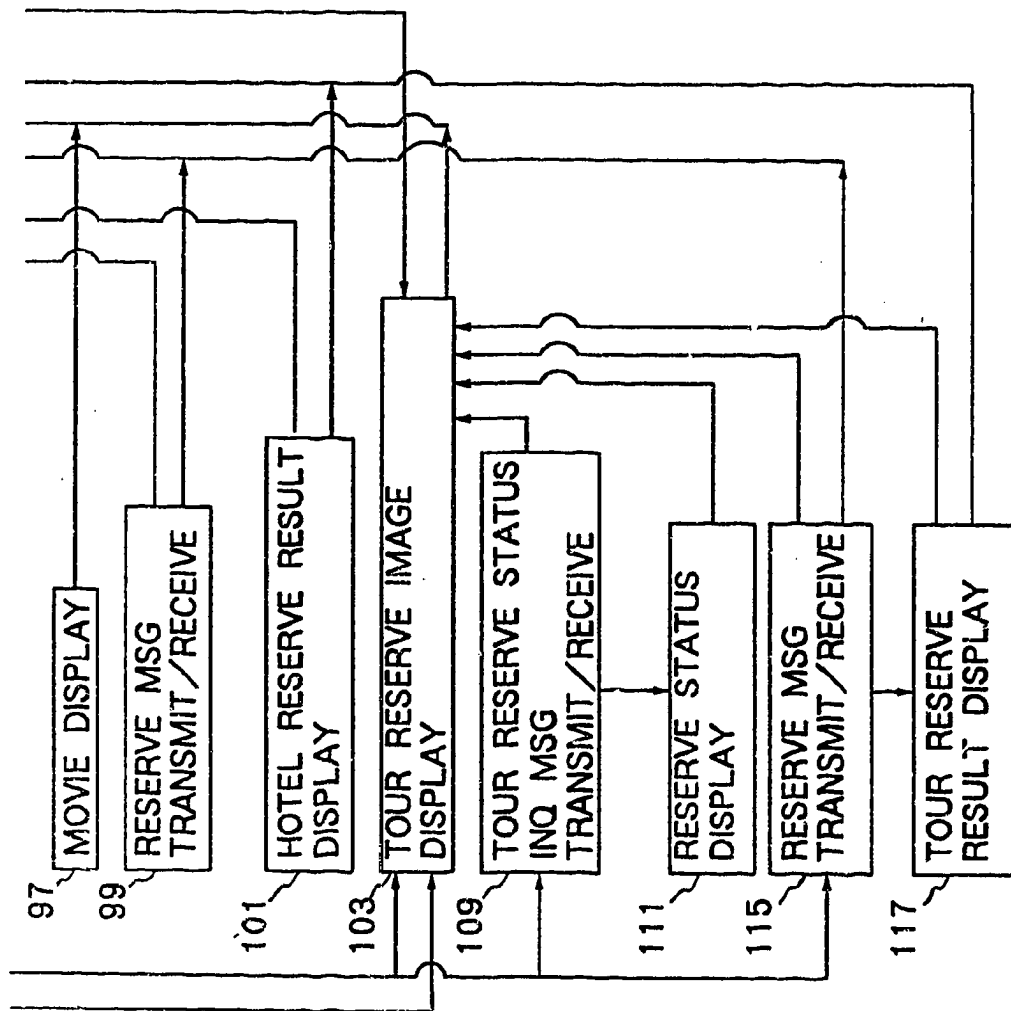


FIG. 2B II

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*J. A. Andrews*

<input type="checkbox"/> 便予約	149	151	153	155	157	159
10月16日 月曜日	翌日	前日	次便	発信	中断	次頁
<input type="checkbox"/> 羽田	到着	大阪		162 便指定	161	<input type="checkbox"/> 国内都市指定
145 出発				127	163	<input type="checkbox"/> 国際都市指定
クラス	<input type="checkbox"/> FPJ	<input type="checkbox"/> C	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> その他		<input type="checkbox"/> 日付指定
153	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9			ARNK	165	<input type="checkbox"/> JL
席数				OPEN	167	169
155						


日付	便名	出発	到着	機種	乗継	予約状況
16	日本航空101	0700	0800	747	0	F51 席以上 Y51 席以上 ...
16	日本航空105	0850	0950	D10	0	J51 席以上 Y51 席以上 ...
16	日本航空109	1045	1145	D10	0	P51 席以上 Y51 席以上 ...
16	日本航空113	1300	1400	D10	0	Q51 席以上 Y51 席以上 ...
16	日本航空117	1510	1810	D10	0	F51 席以上 Y51 席以上 ...
16	日本航空125	1800	1900	747	0	F51 席以上 Y51 席以上 ...
16	日本航空127	1935	2035	747	0	F51 席以上 Y51 席以上 ...

日本語	英大	20:53
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**F/G:3**




177




日付指定

1989年		日	月	火	水	木	金	
9月		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
173 ~		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10月		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
175 ~		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>




便予約 (AXE)

179




国内都市指定

181



国際都市指定

183



国際都市指定

185

中断

日本語 英大 21 : 02

FIG.4

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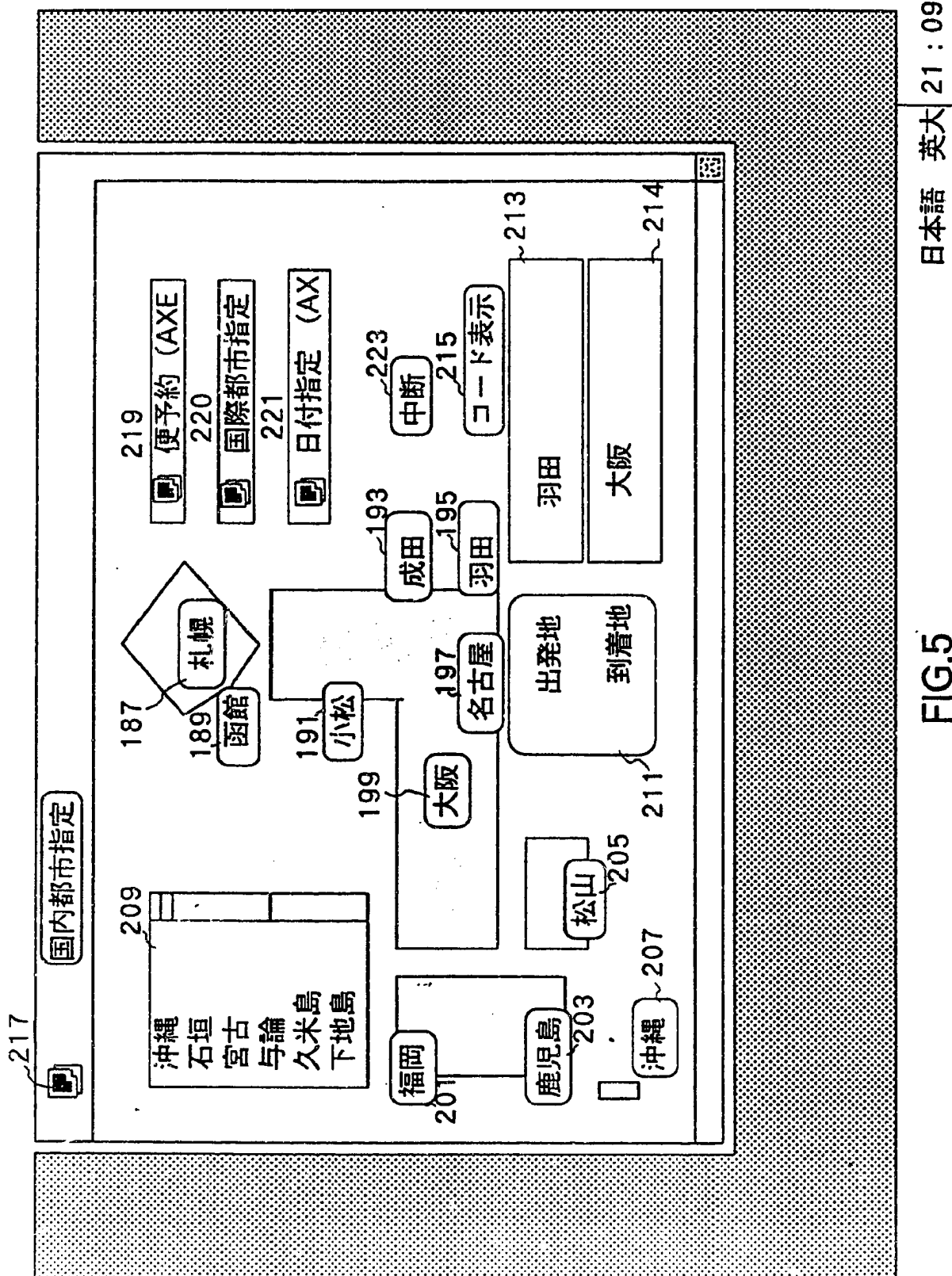


FIG.5

国際都市指定

日本

成田  
大阪  
名古屋  
福岡  
札幌  
小松

太平洋

オークランド  
アンカレジ  
アトランタ  
ブリスベン  
シカゴ  
ケアンズ

便予約 (AXES)

国内都市指定 (A)

日付指定 (AXE)

中断

コード表示

アジア・中東

アブダビ  
バンコク  
カイロ  
デリー  
香港  
ジェッダ

ヨーロッパ

アムステルダム  
アテネ  
コペンハーゲン  
デュッセルドルフ  
フランクフルト  
ハンブルグ

出発地

HND  
OSA

到着地

OSA

日本語 英大 20:57

FIG.6

237

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246

263

265

267

269

予約編集

予約記録番号

NARITA

作成日

12

月

27

日有効期限

60

分

251

257

\*先頭に挿入する場合はここをクリックして下さい。

1 AAA/AAA

2 BBB/BBB

3 CCC/CCC

4 DDD/DDD

20 女性

30 男性

10 男性

20 女性

便予約

253

259

事前座席

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完了

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911

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925

11/87

305

## 事前座席指定

搭乗者 311

1 INADA/TAKAYA 38 男性  
 2 INADA/TAEKO 35 女性  
 3 INADA/MIMI 4 女性

307  
座席チャート

309

中断

313  
機種

便 日付 便名 クラス 出発 到着

1	11/11	日本航空 1072	F	1900	0615	747
2	11/21	日本航空 1071	F	1000	1500	747

315

事前座席 日付 便名 搭乗者/座席

1	11/11	日本航空 1072	1A/1B/2A
2	11/21	日本航空 1071	1A/1B/2A

FIG.8

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12/87

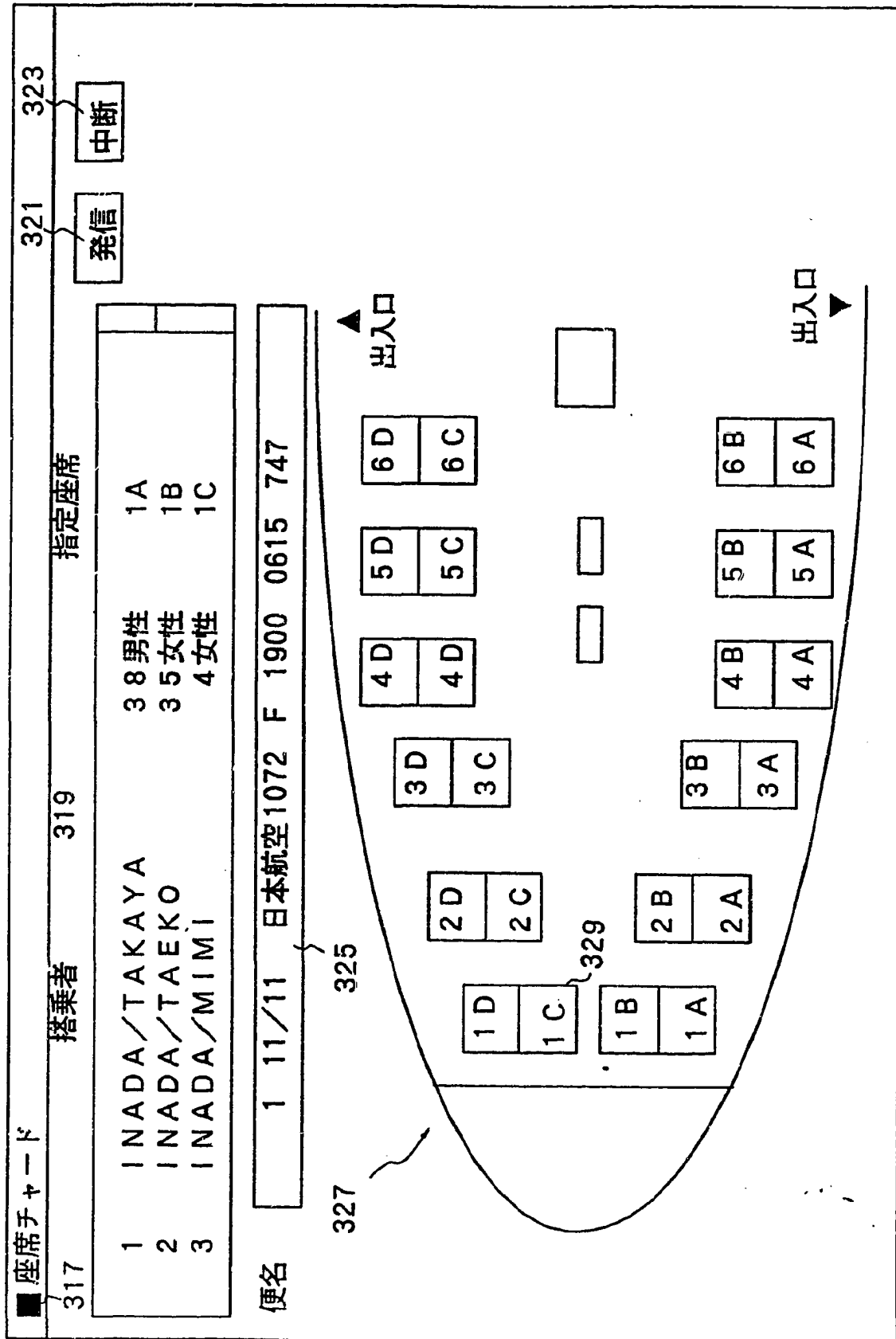


FIG.9

予約記録照会

予約記録番号 日付・便名・名前指定

311

333 予約記録番号指定

334

351 日付指定

343 発信

345 中断

347 再表示

353 次頁

335

337 便名

339 日付

341 名前

349

区間/日付

日本語 かな 20:40

FIG.10

*J. A. Andrews*

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**FIG. 11**



413

☒ ツアー 415 417 419 433 435 441 443 445 447 449  
☐ 出発日 11月 12日 421 423 425  
☐ 旅行期間 6日間 427 429 431  
☐ 販売価格 25万円 457  
☐ 出発都市 東京 437  
☐ 滞在都市 ホノルル 439  
☐ 滞在都市 滞都在都市 453  
☐ 滞在都市 滞都在都市 455  
☐ 日付指定 国際都市  
☐ 中断 次頁  
☐ 発信 461 463 465  
☐ 人数 4名  
☐ SGL ☐ TWN ☐ TRL ☐ その他 459  
☐ 部屋タイプ ☐ A ☐ B ☐ C ☐ その他 467  
☐ FLT ボタン 469

追加情報

471

473

ツアーコード	ツアー名	ホテル	部屋	食事	FLT ボタン	販売価格
JA1306A	マイコース	プリンセスカイウラニ	海側		BC	222,000B
JA1306B	マイコース	プリンセスカイウラニ	海側	食事付	BC	249,000B
JA1306C	マイコース	ロイヤルハワイアン	デラックス		BC	258,000B
JA1306D	マイコース	ロイヤルハワイアン	デラックス	食事付	BC	285,000B
JA1306E	マイコース	ハワイアンリージェント	海側		BC	242,000B
JA1306F	マイコース	ハワイアンリージェント	海側	食事付	BC	269,000B
JA1306G	マイコース	モアナサーフライダー	海側		BC	258,000B
JA1306H	マイコース	モアナサーフライダー	海側	食事付	BC	285,000B
JA1306I	マイコース	ヒルトンレインボータワー			BC	258,000B
JA1306J	マイコース	ヒルトンレインボータワー		食事付	BC	285,000B

475

FIG.12

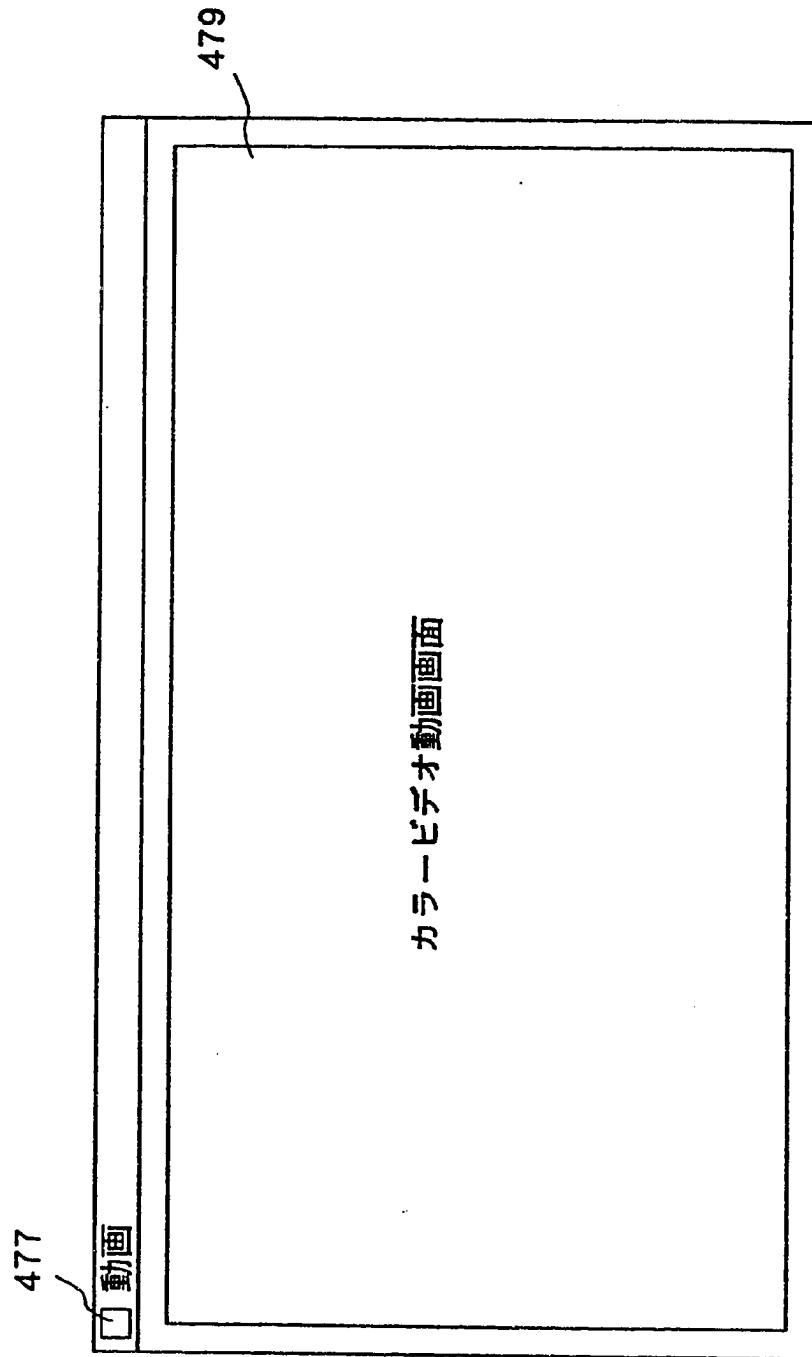


FIG.13

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	變更三	削除
	挿入	

FIG.14C

予約三	次便
	発信
	中断
	完了

FIG.14B

予約
・變更
実行
小物
配色
表示管理

FIG.14A

481	485	487	489	491	493
			取消	確認	終了

FIG.14D

	表示管理
	便予約
	国内
	国際
予約記録照会	

FIG.14E

FUNCTION SELECTING METHOD ON RESERVE EDIT IMAGE

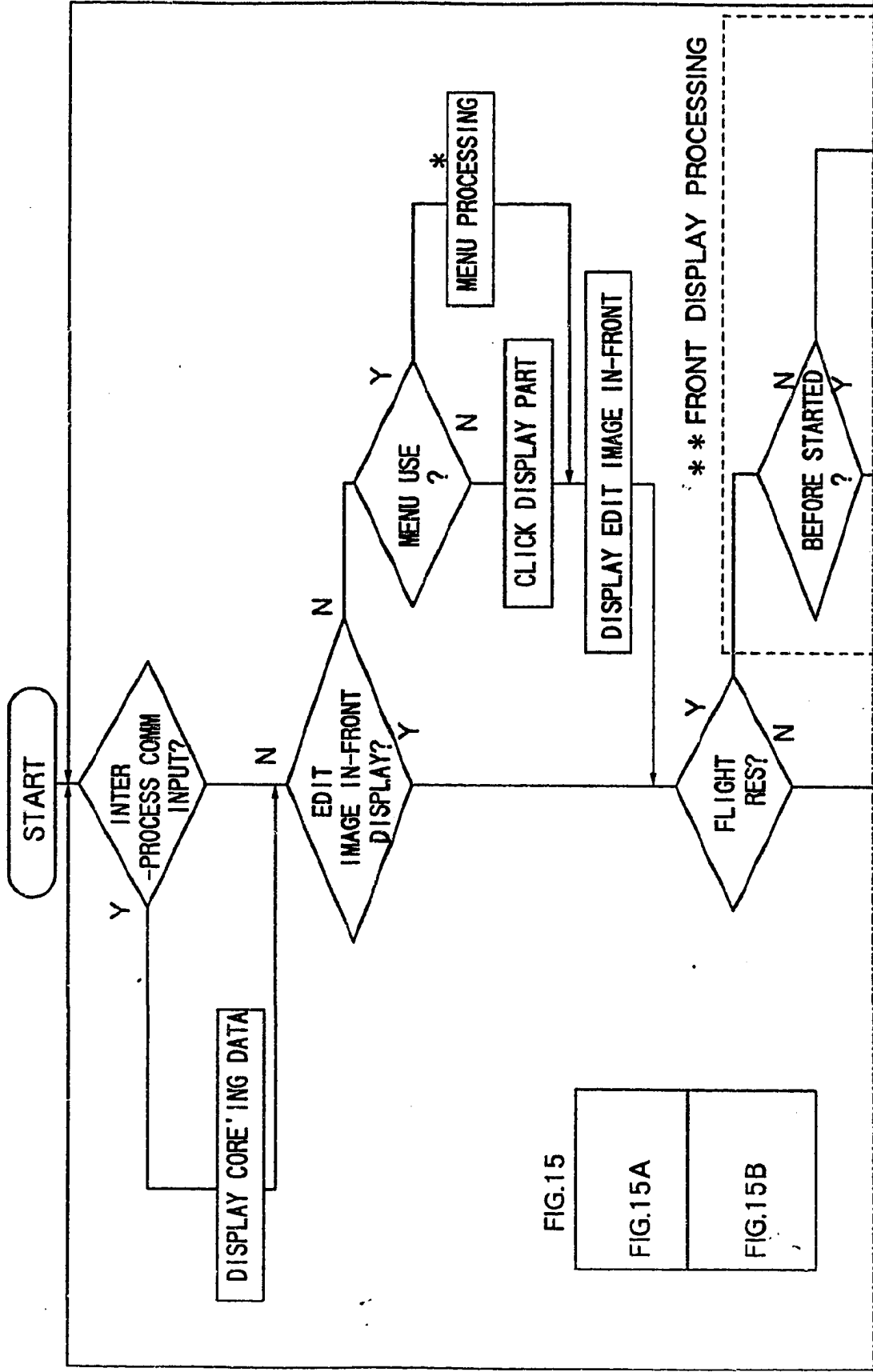


FIG.15A

FIG.15

FIG.15A

FIG.15B

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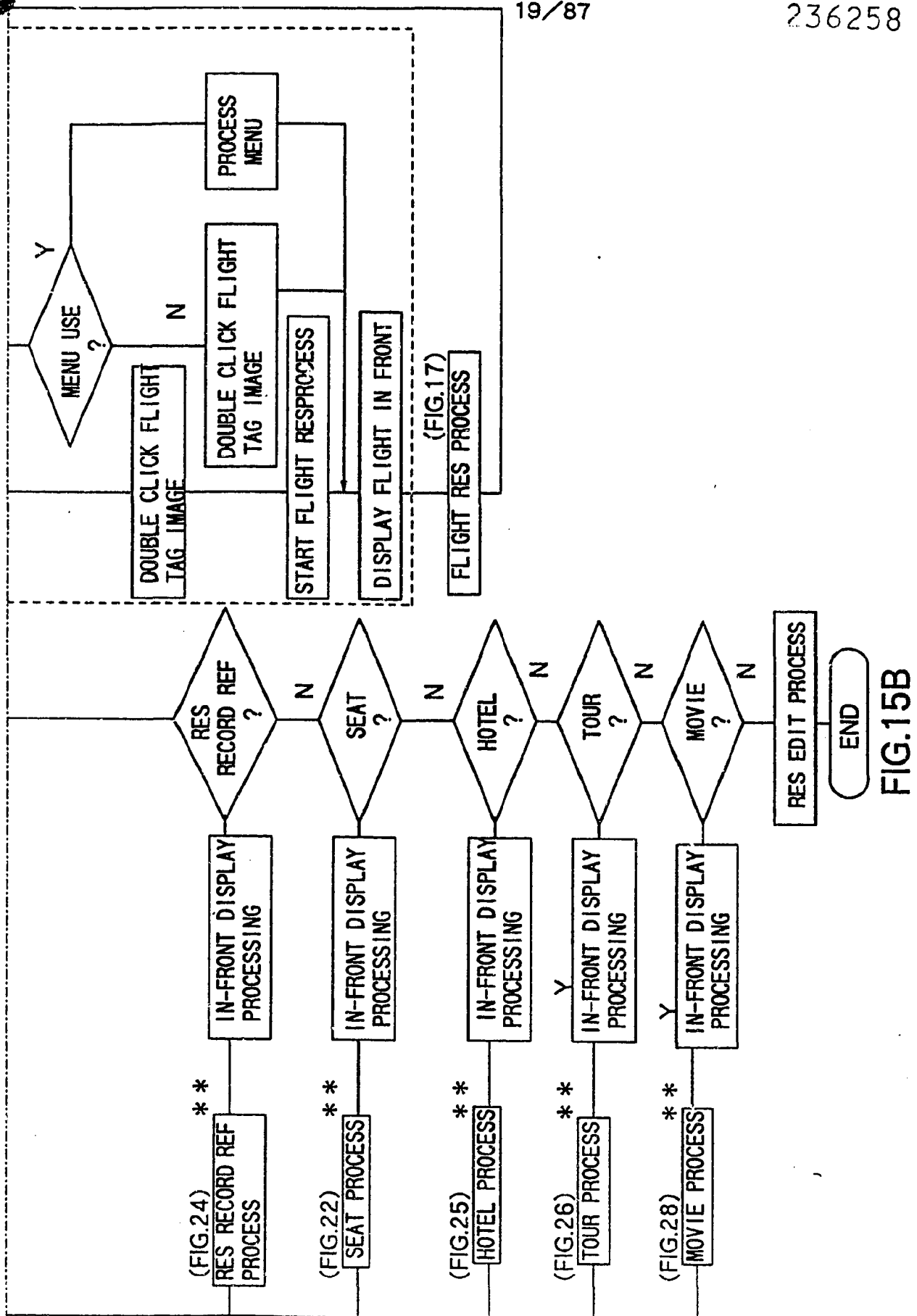


FIG. 15B

*J. A. Andrews*

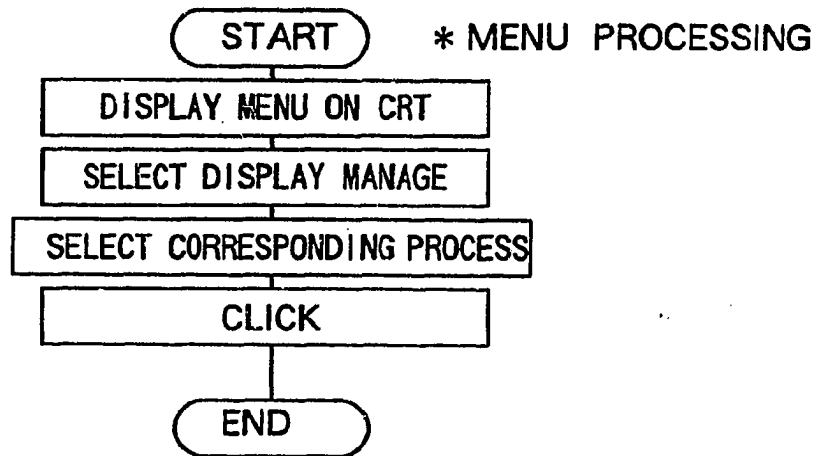


FIG.16

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*J. A. Andrews*

FLIGHT NO. RESEVE PROCESS

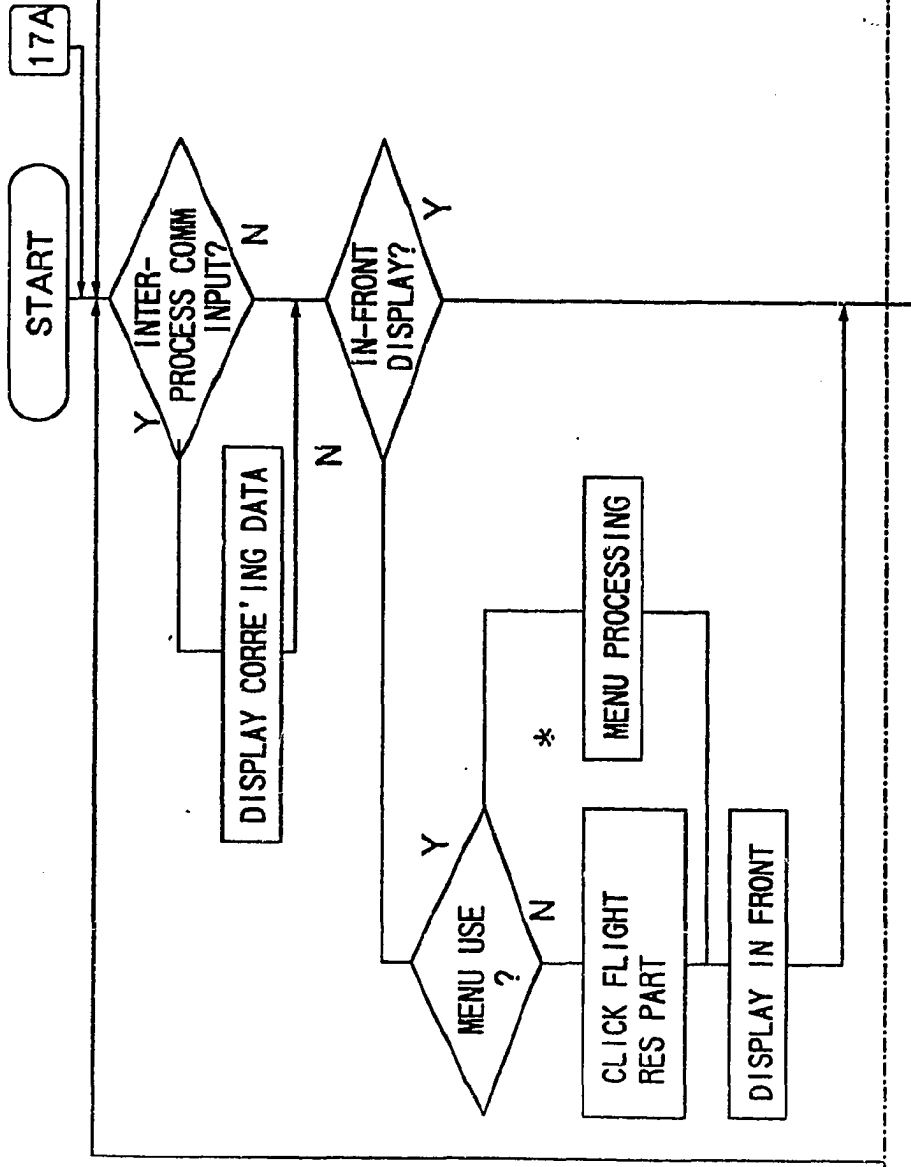


FIG.17A

FIG.17A I

FIG.17A II

FIG.17A I

*J. a. Andrews*

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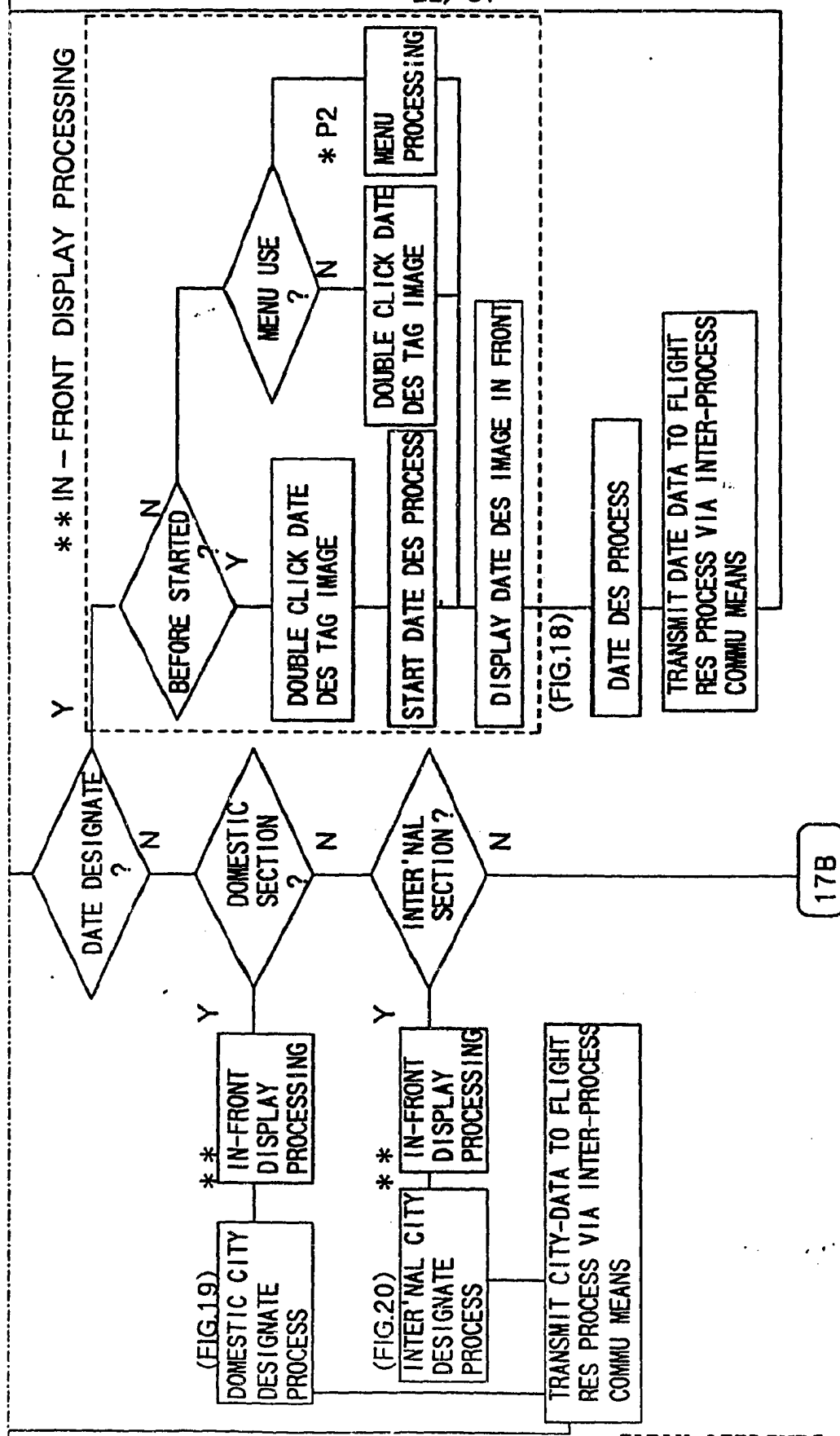
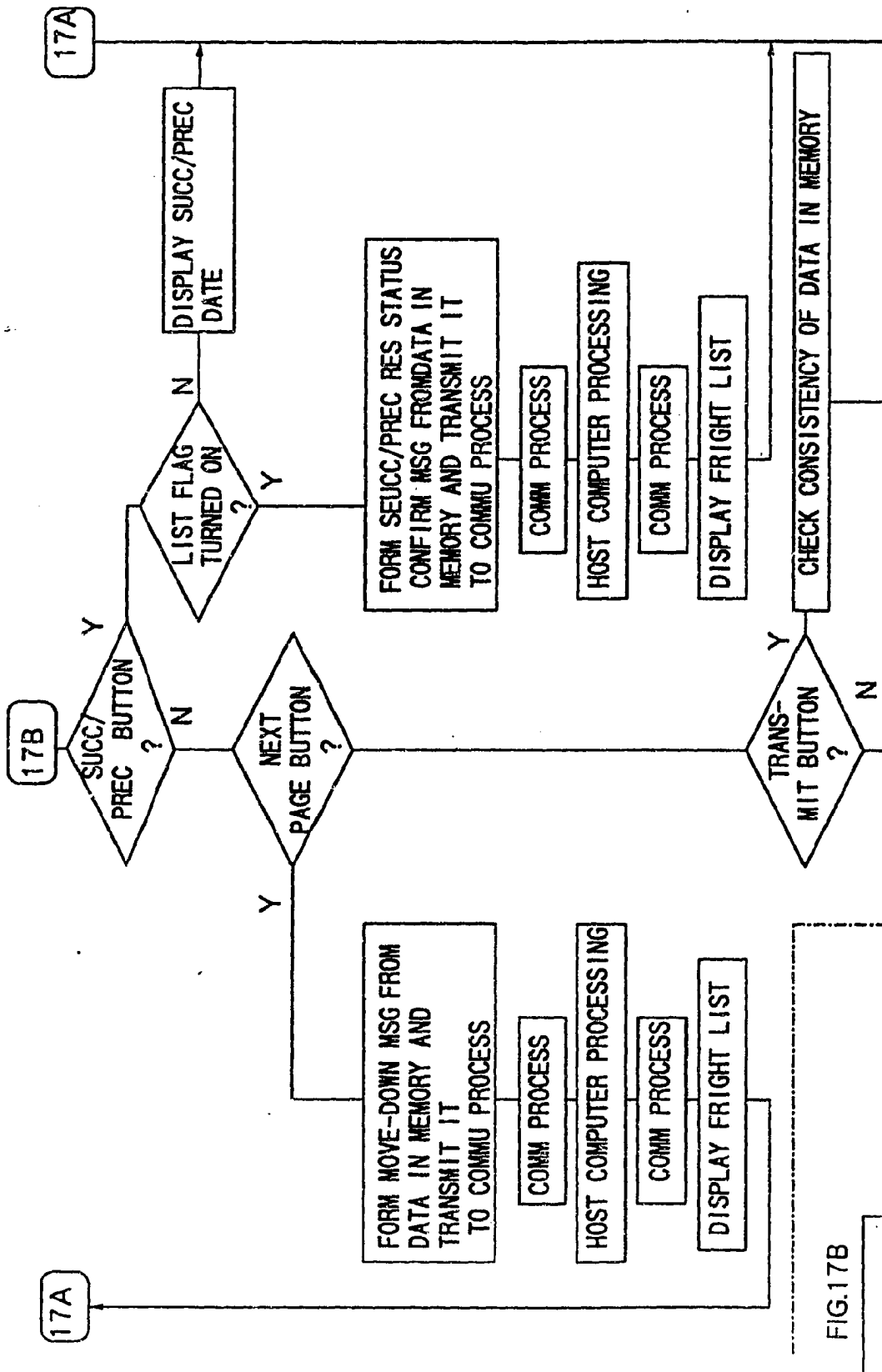


FIG. 17A II





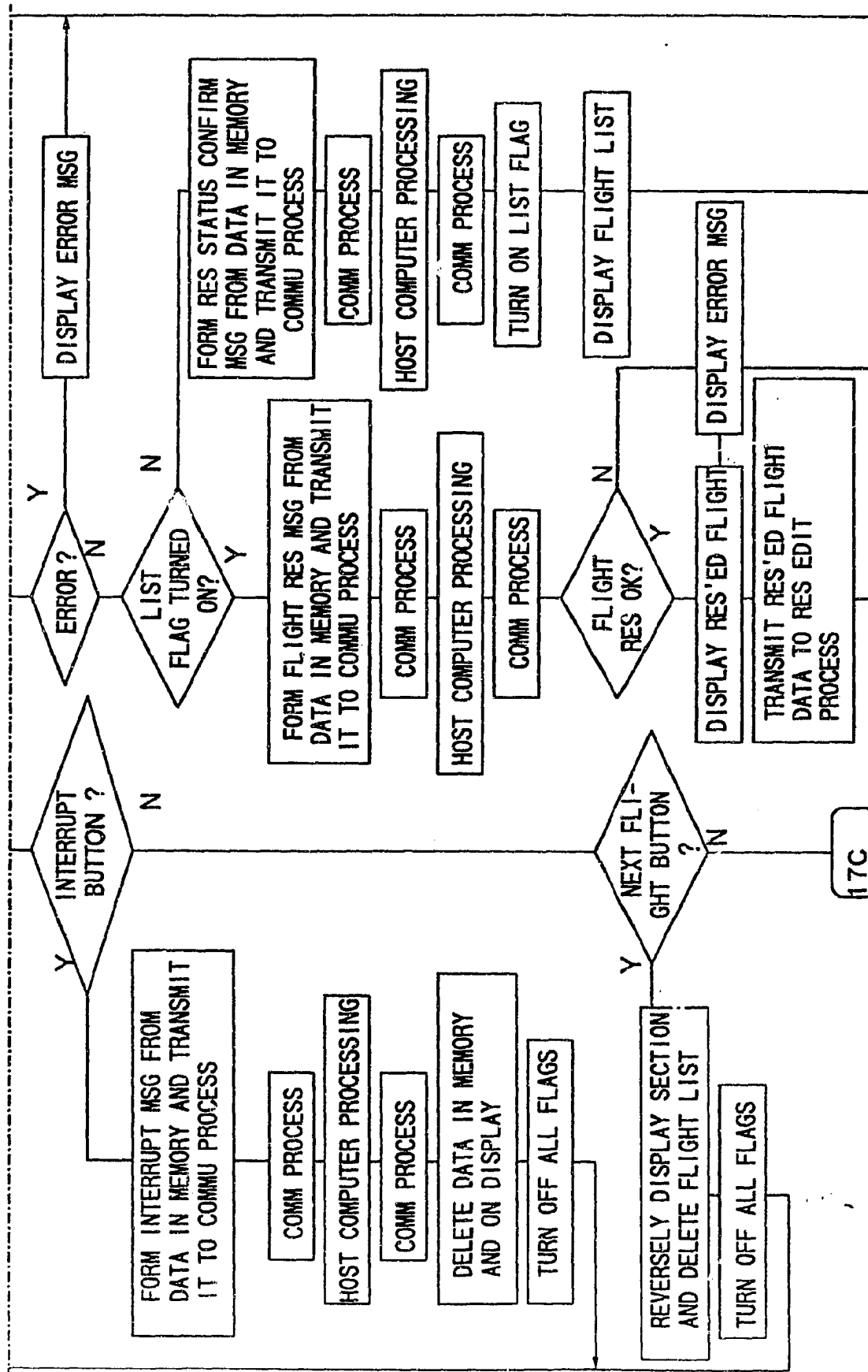
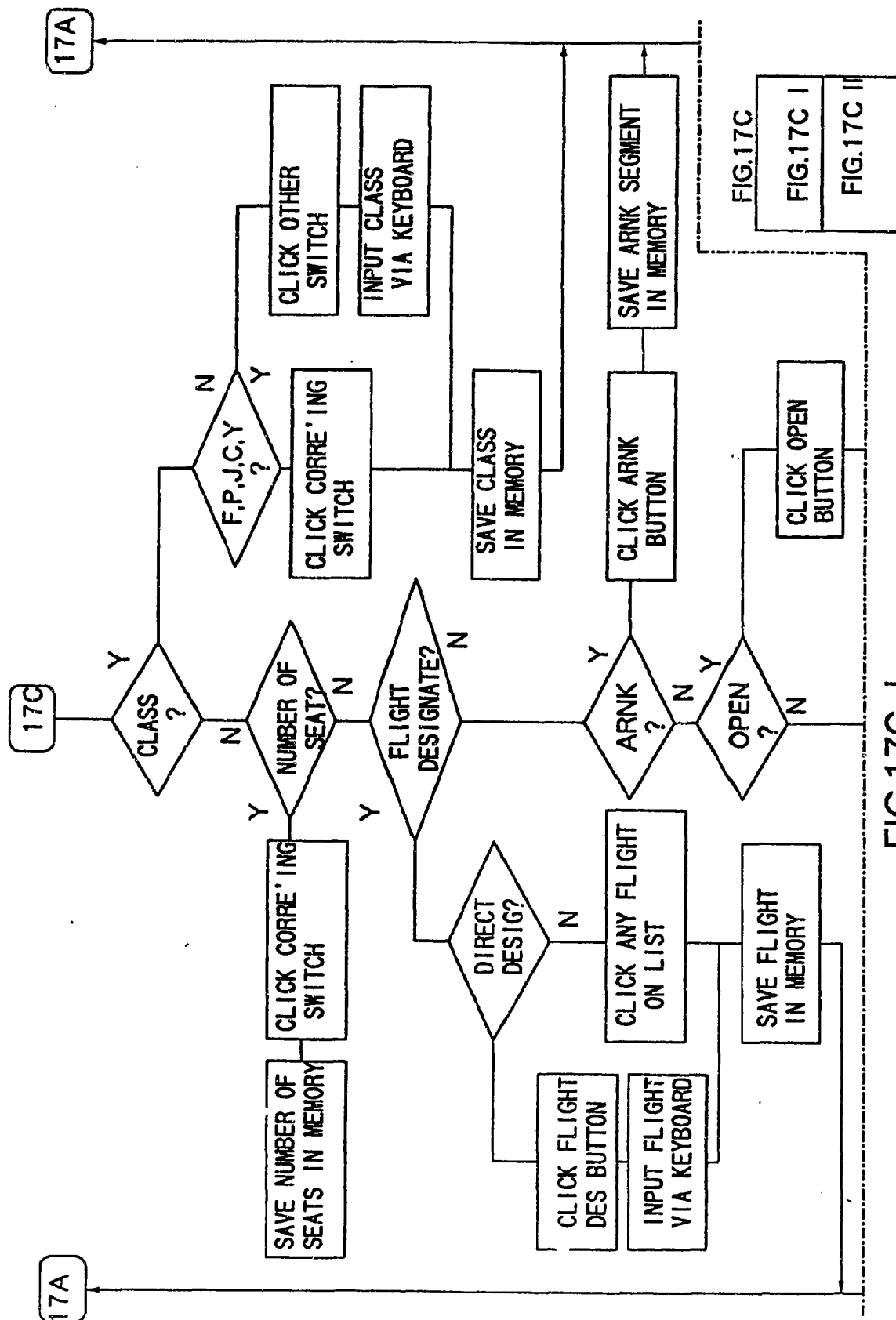


FIG. 17B II



26/87

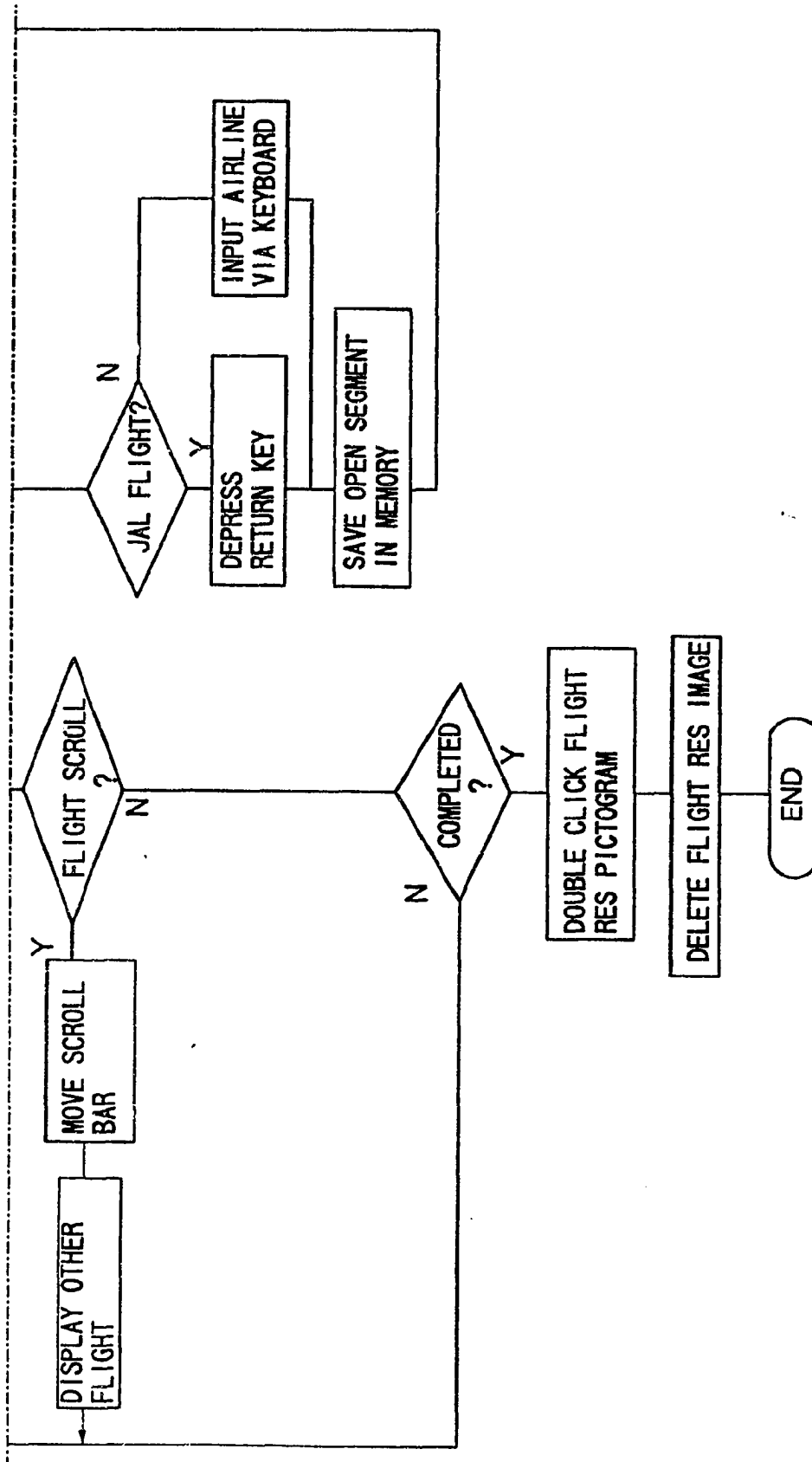


FIG. 17C II

*g a Andrews*

## DATE DESIGNATE PROCESS

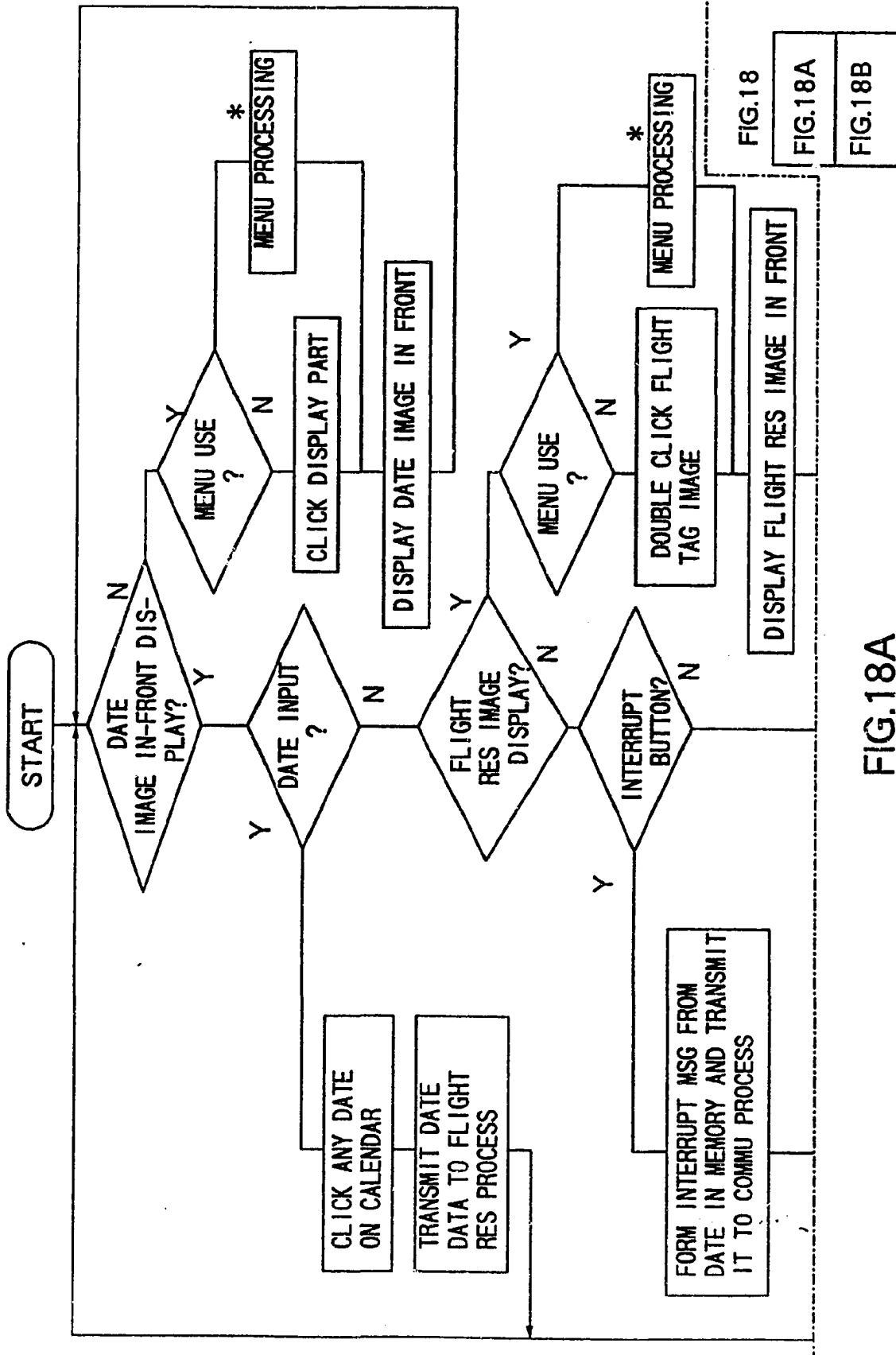


FIG.18A

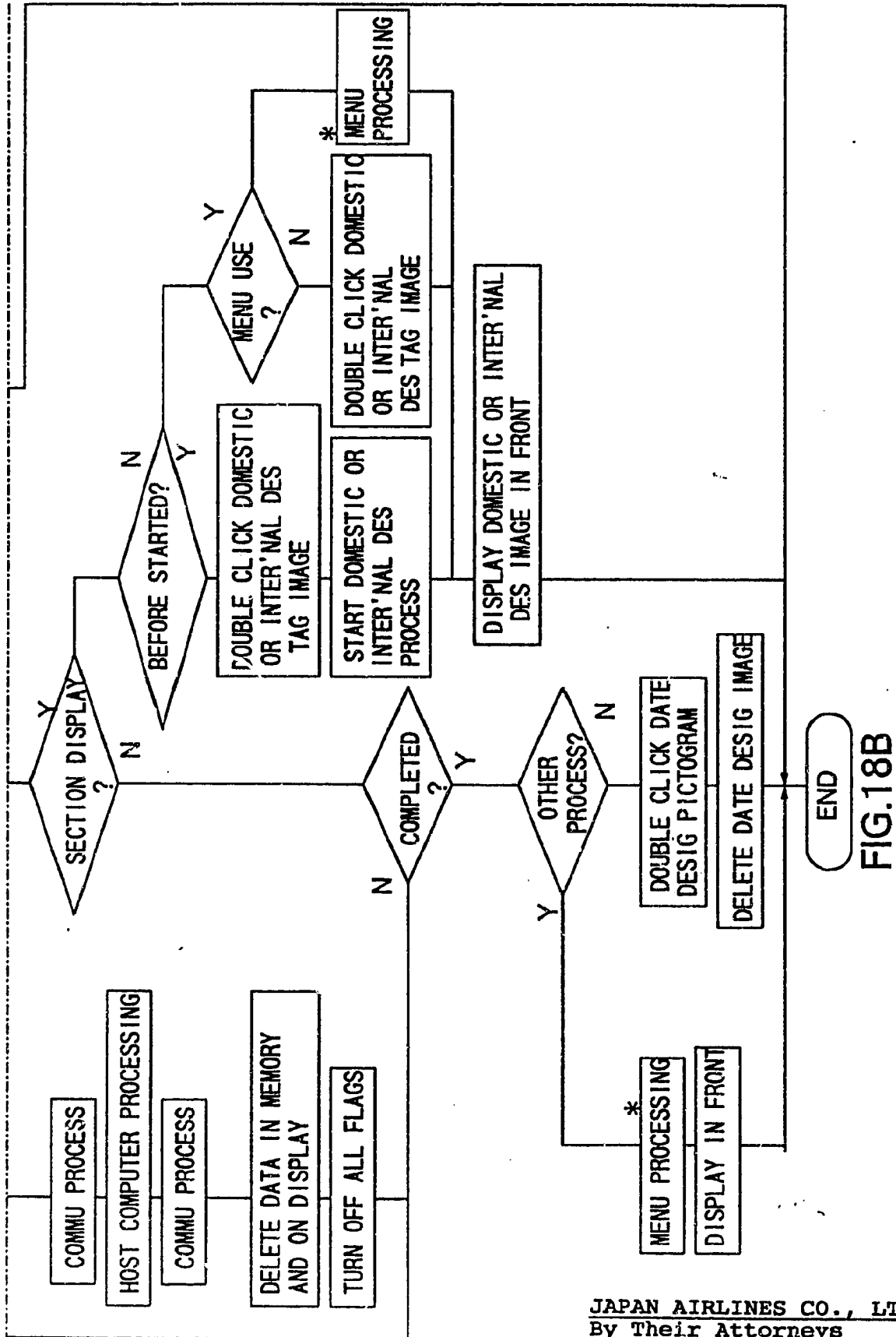
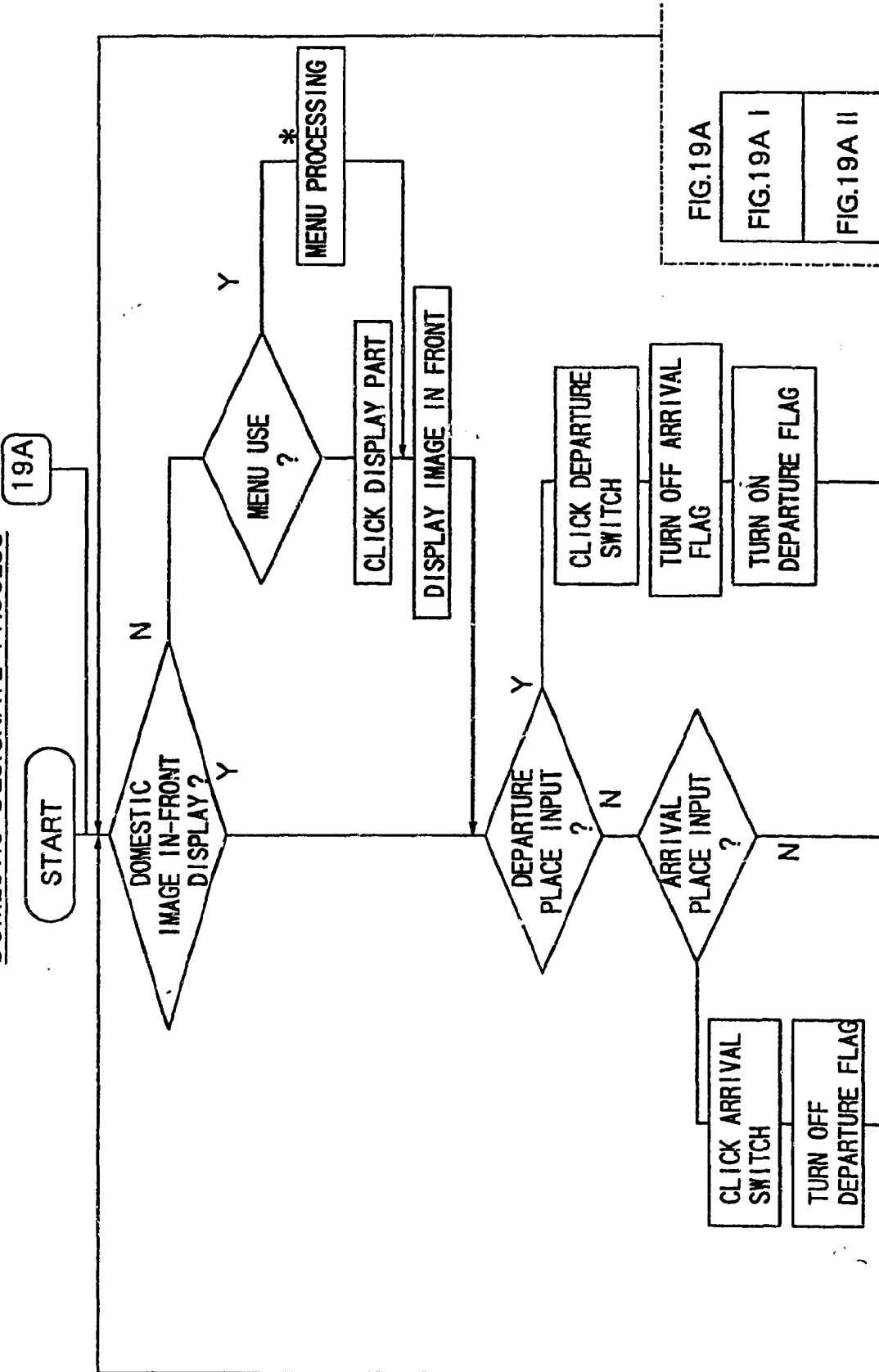


FIG.18B

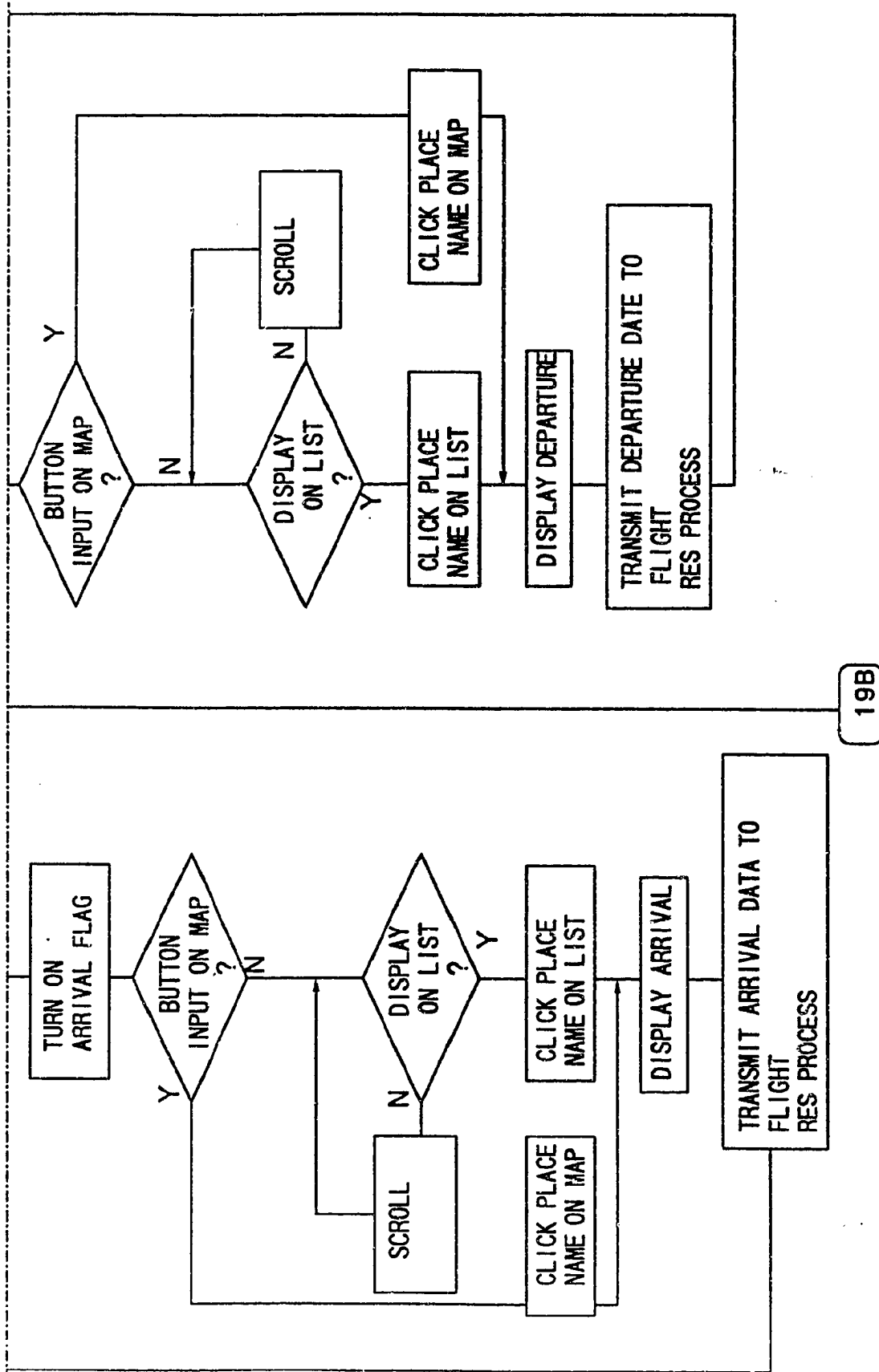
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DOMESTIC DESIGNATE PROCESS

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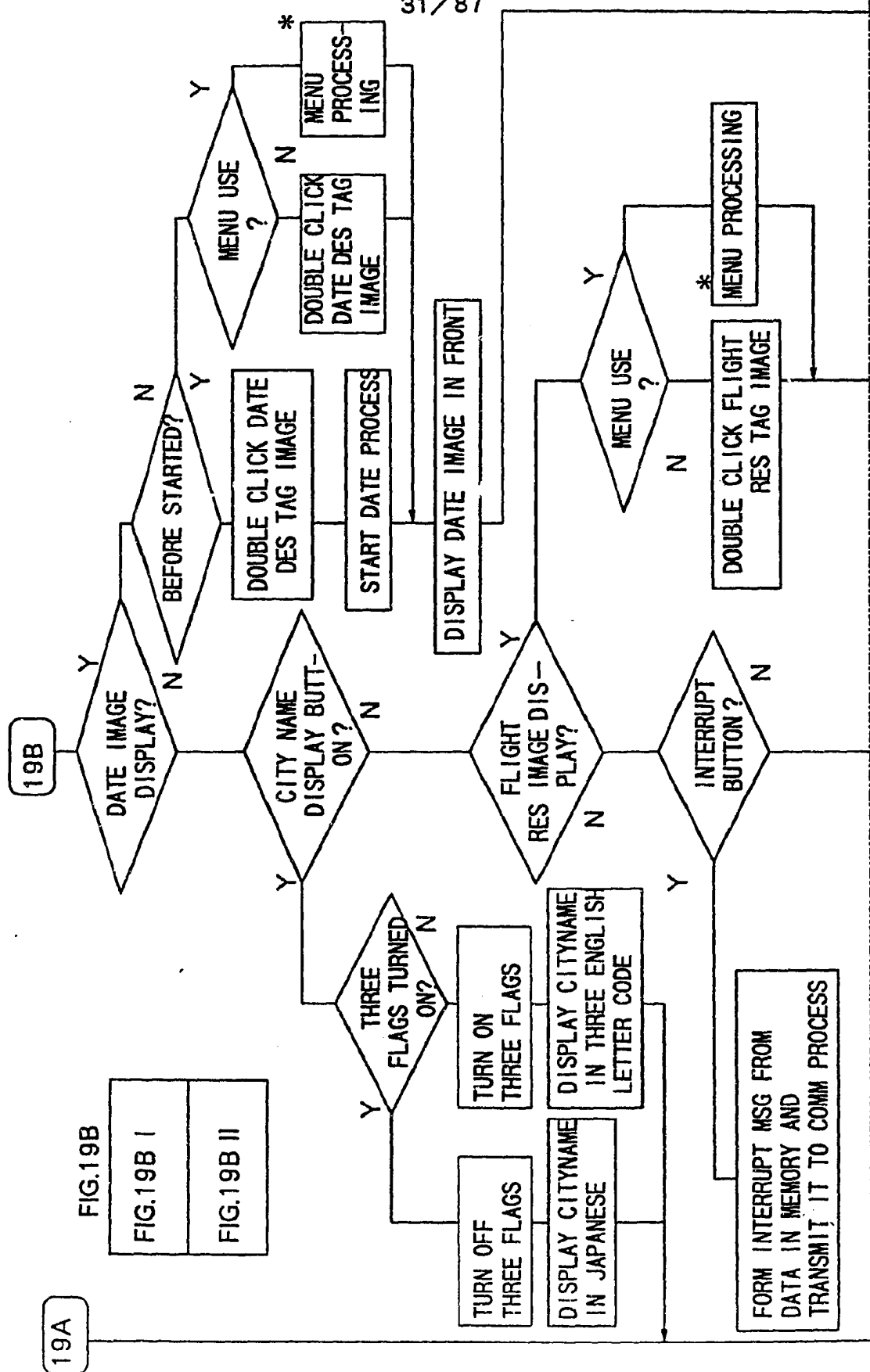
19B

FIG. 19A II

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**FIG. 19B i**

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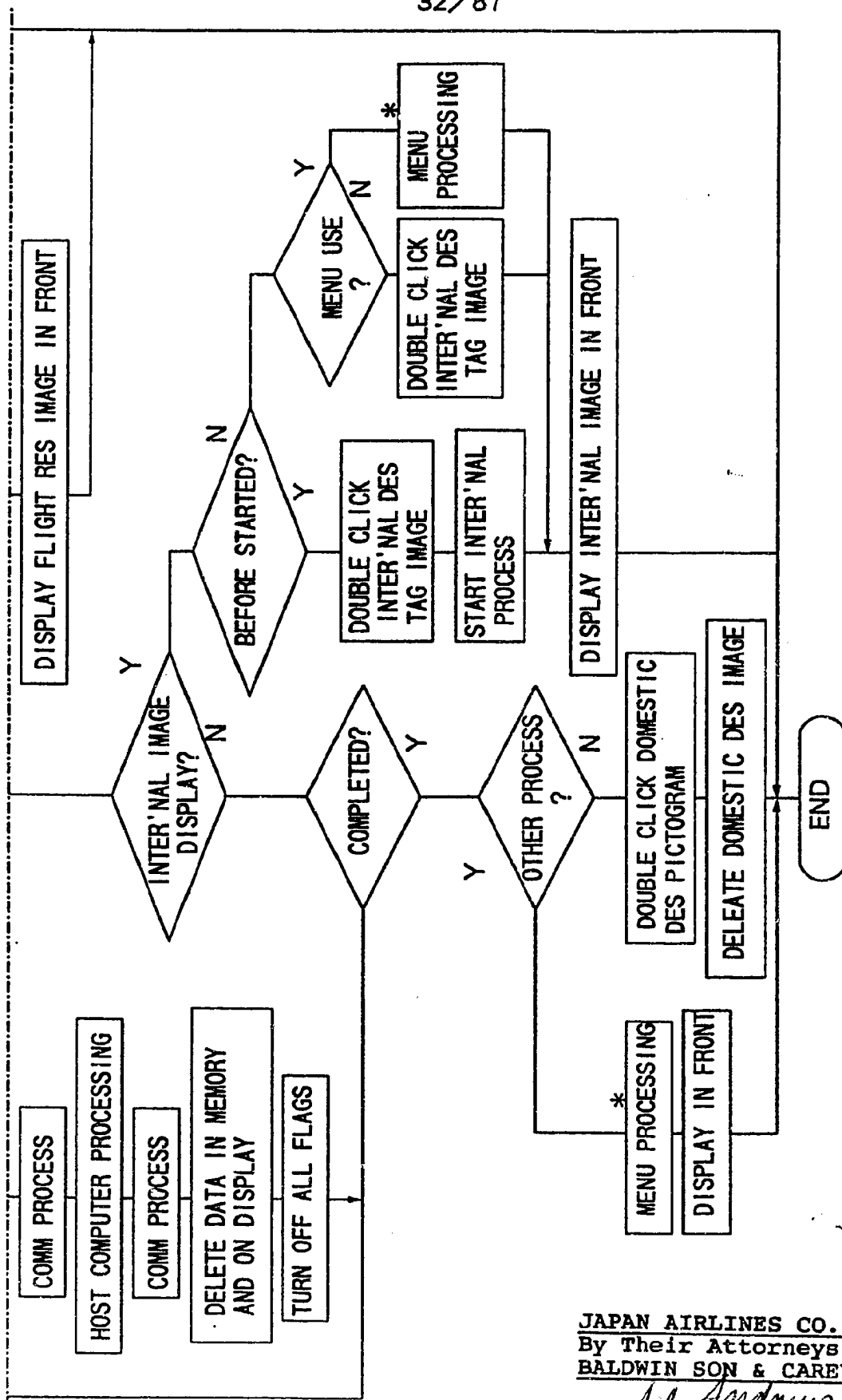


FIG.19 B II

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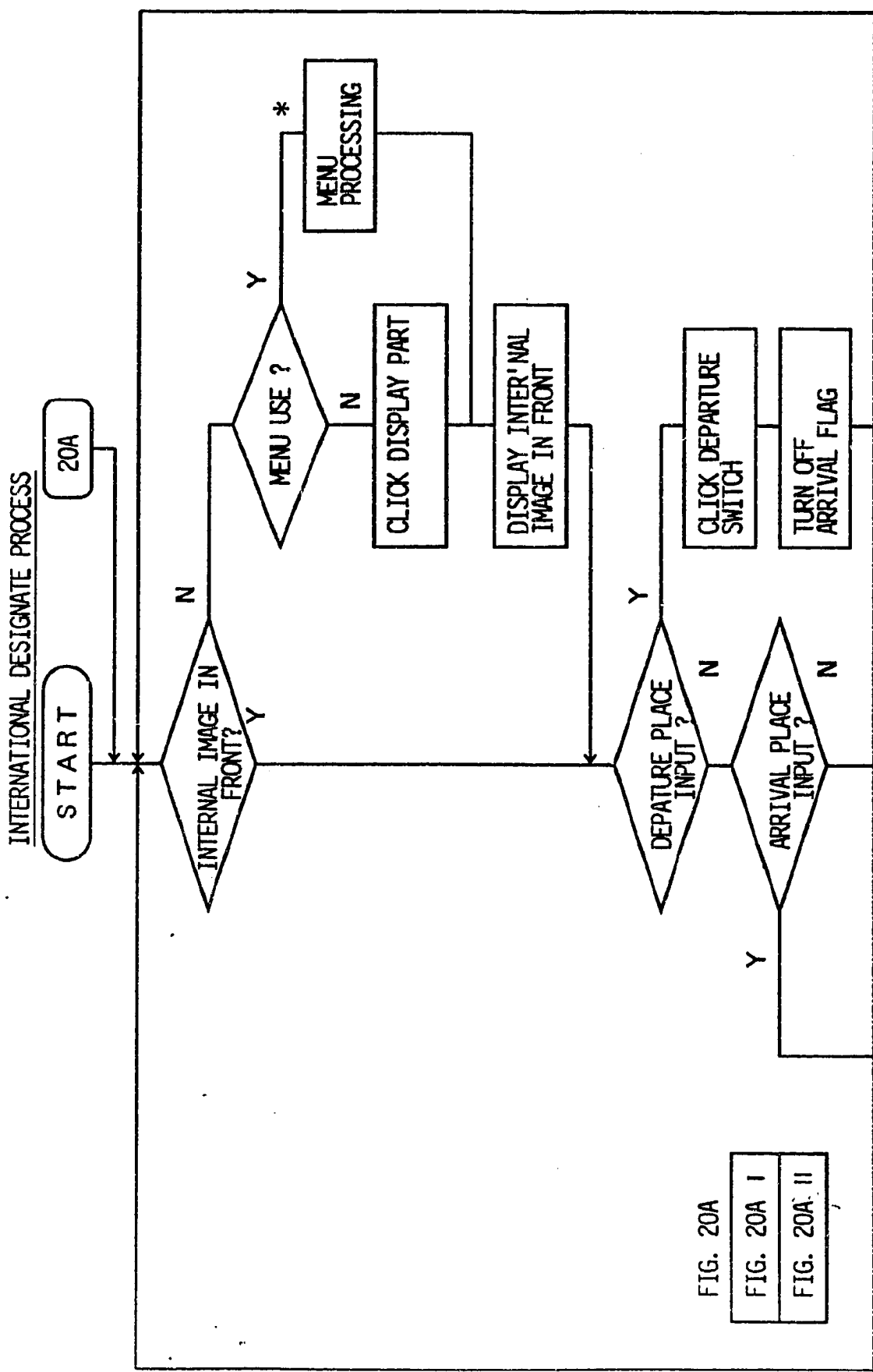


FIG. 20A I

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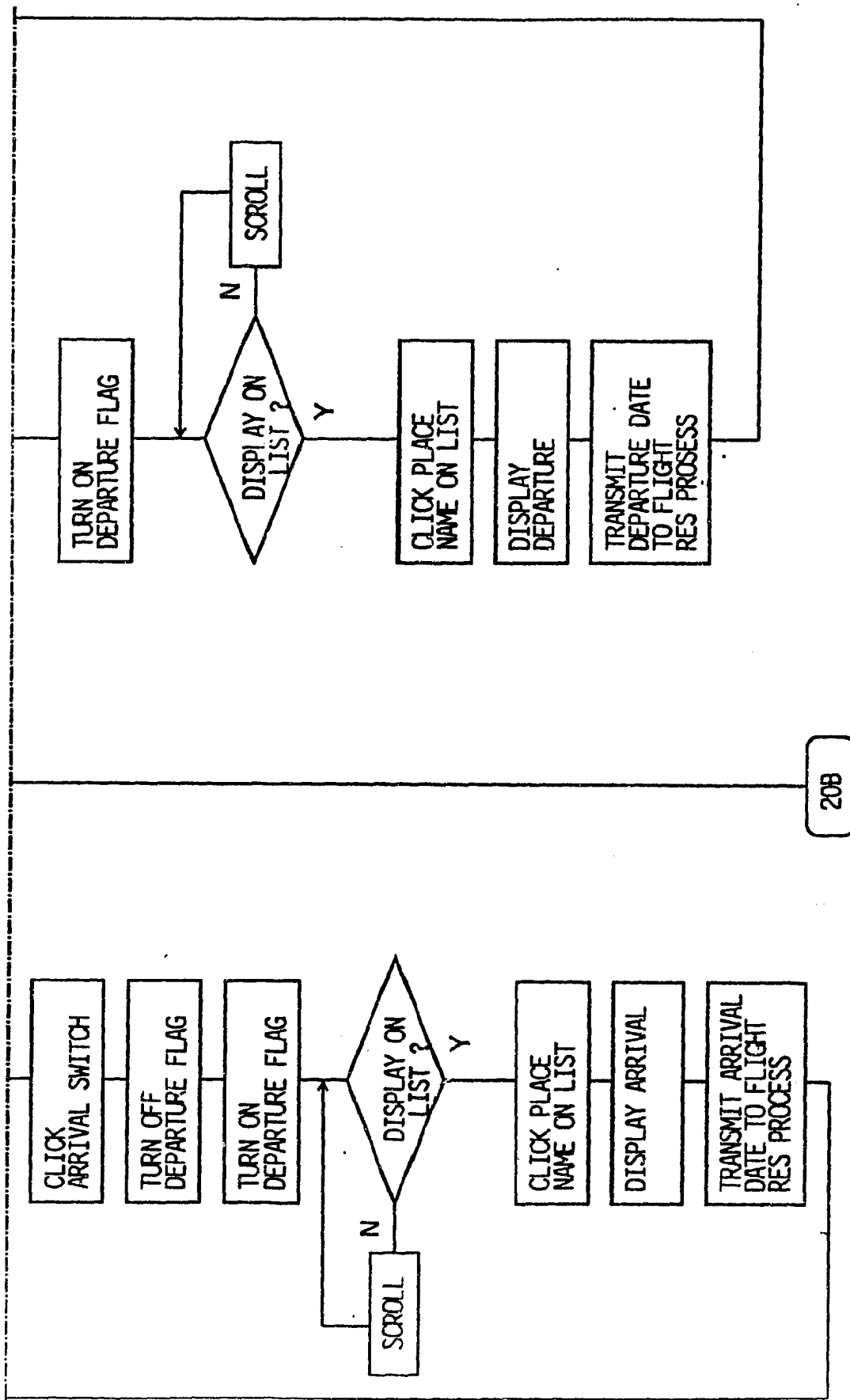


FIG. 20A II

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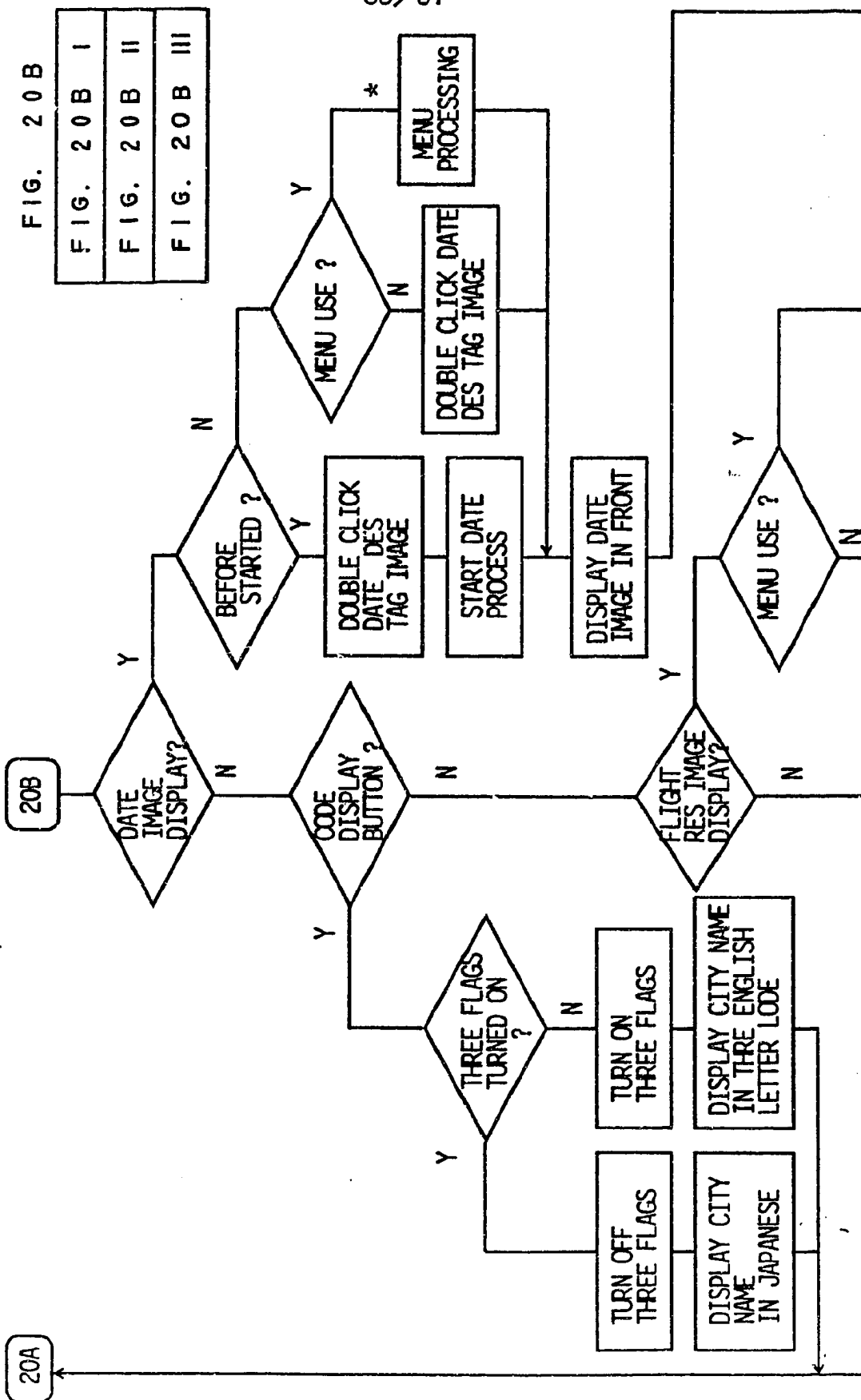


FIG. 20B I

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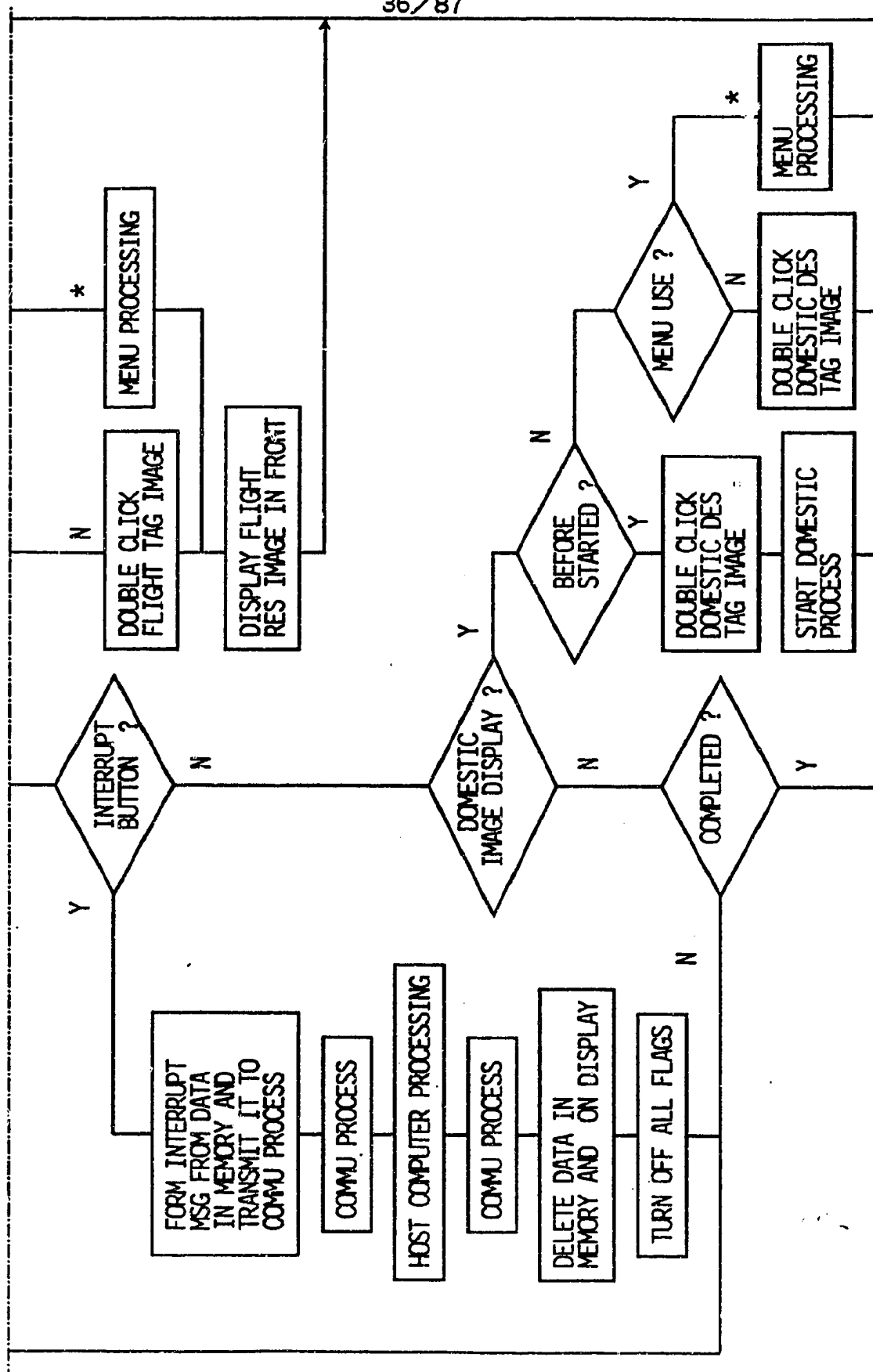


FIG. 20B II

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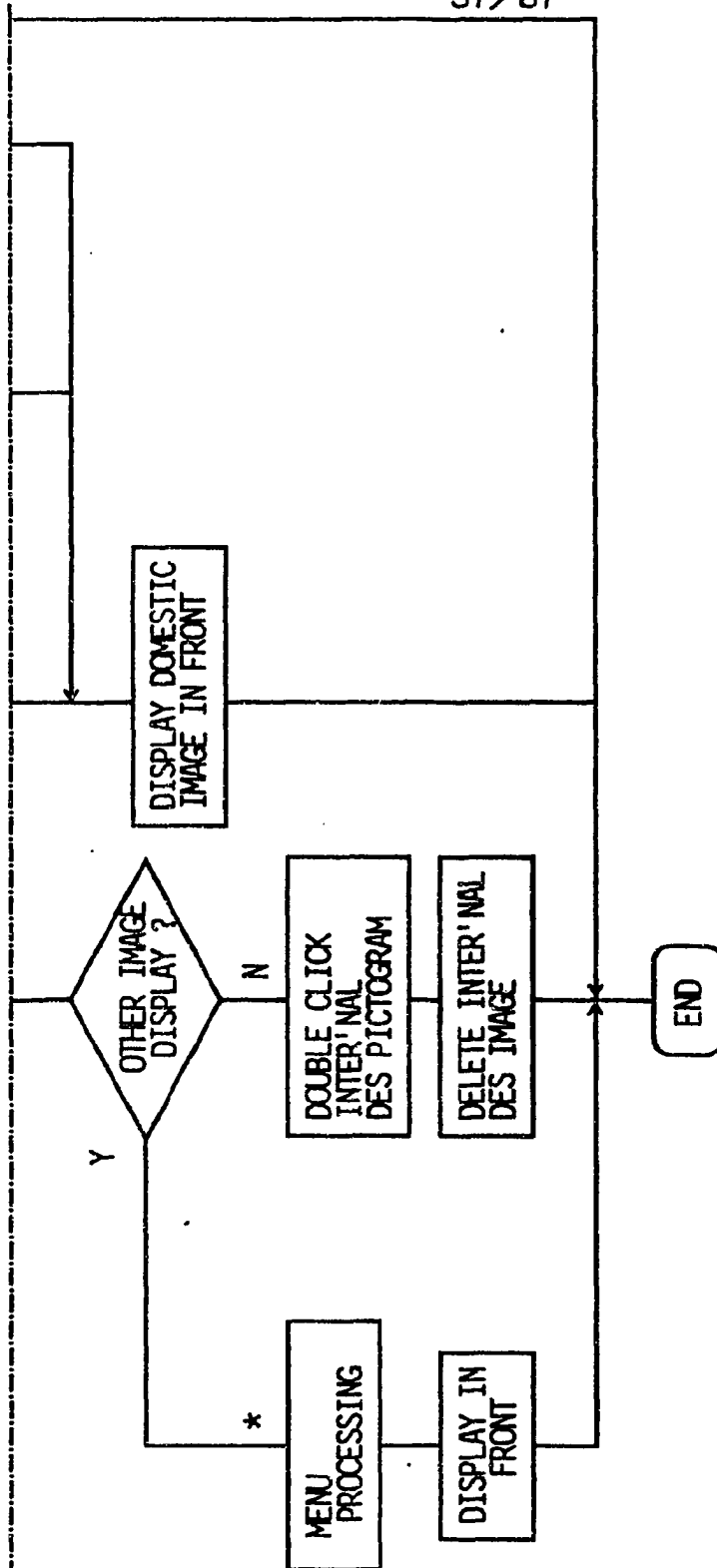


FIG. 20B III

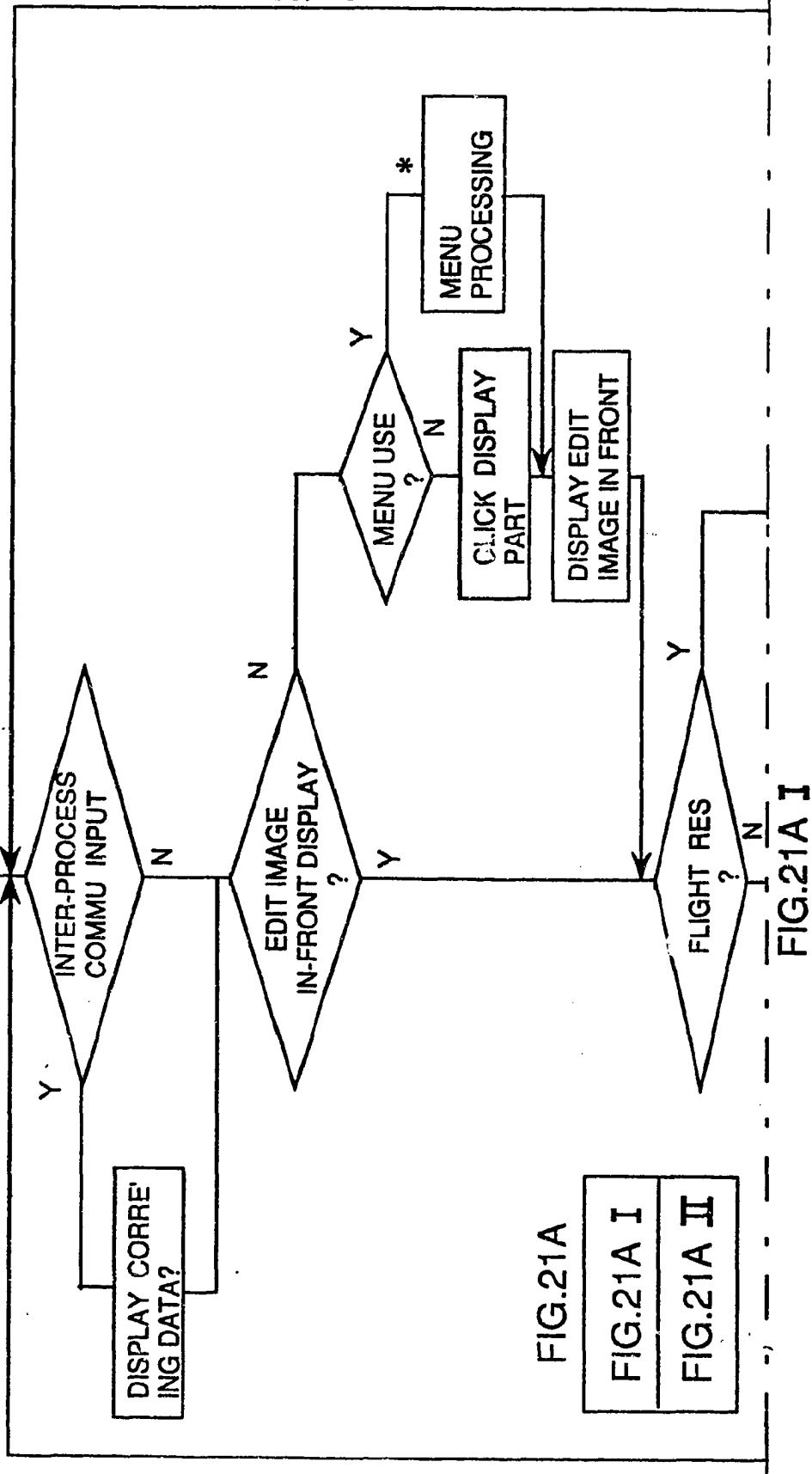
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RESERVE EDITION PROCESS

21A

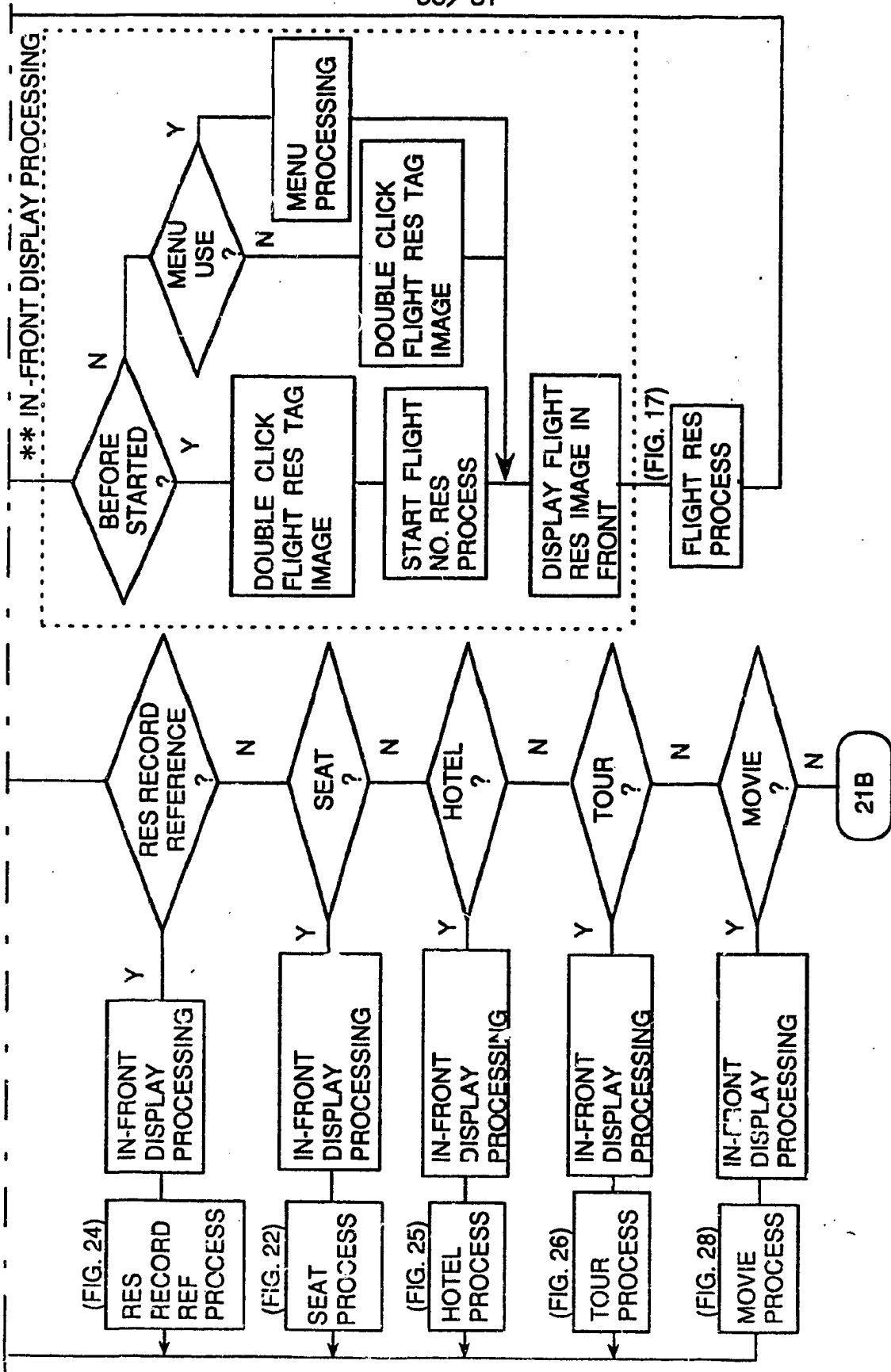
START

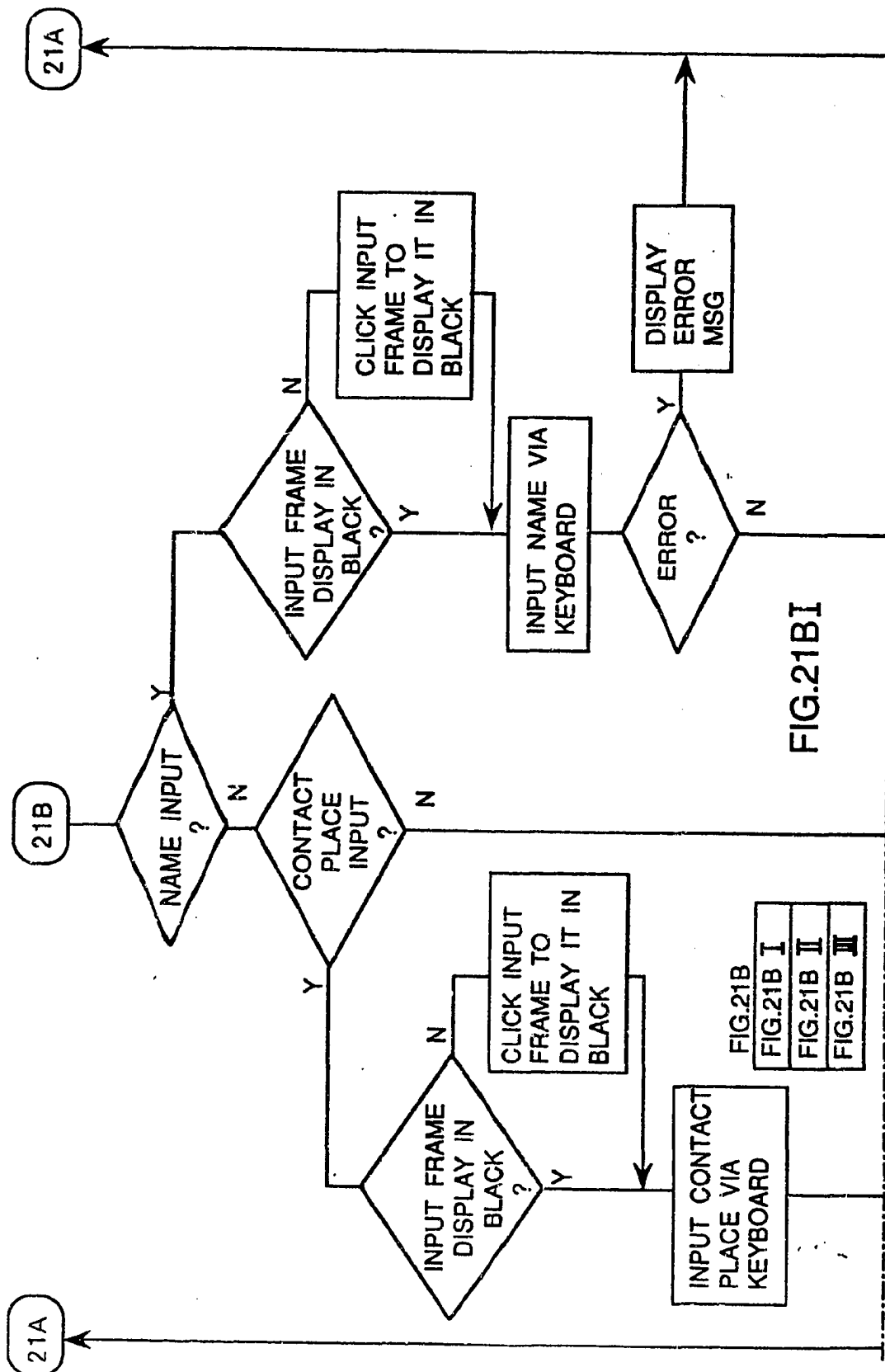

*J. a. Andrew*

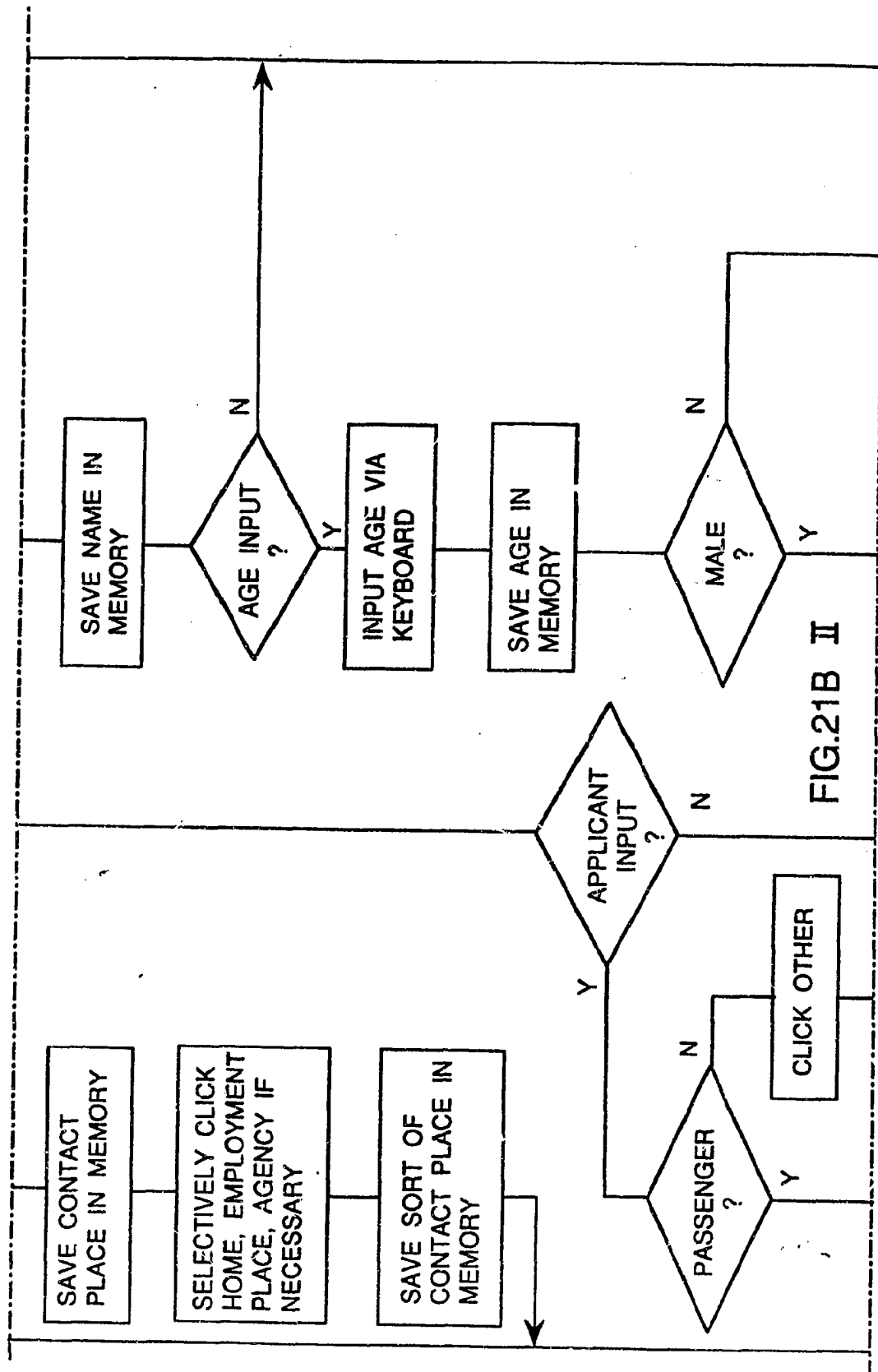
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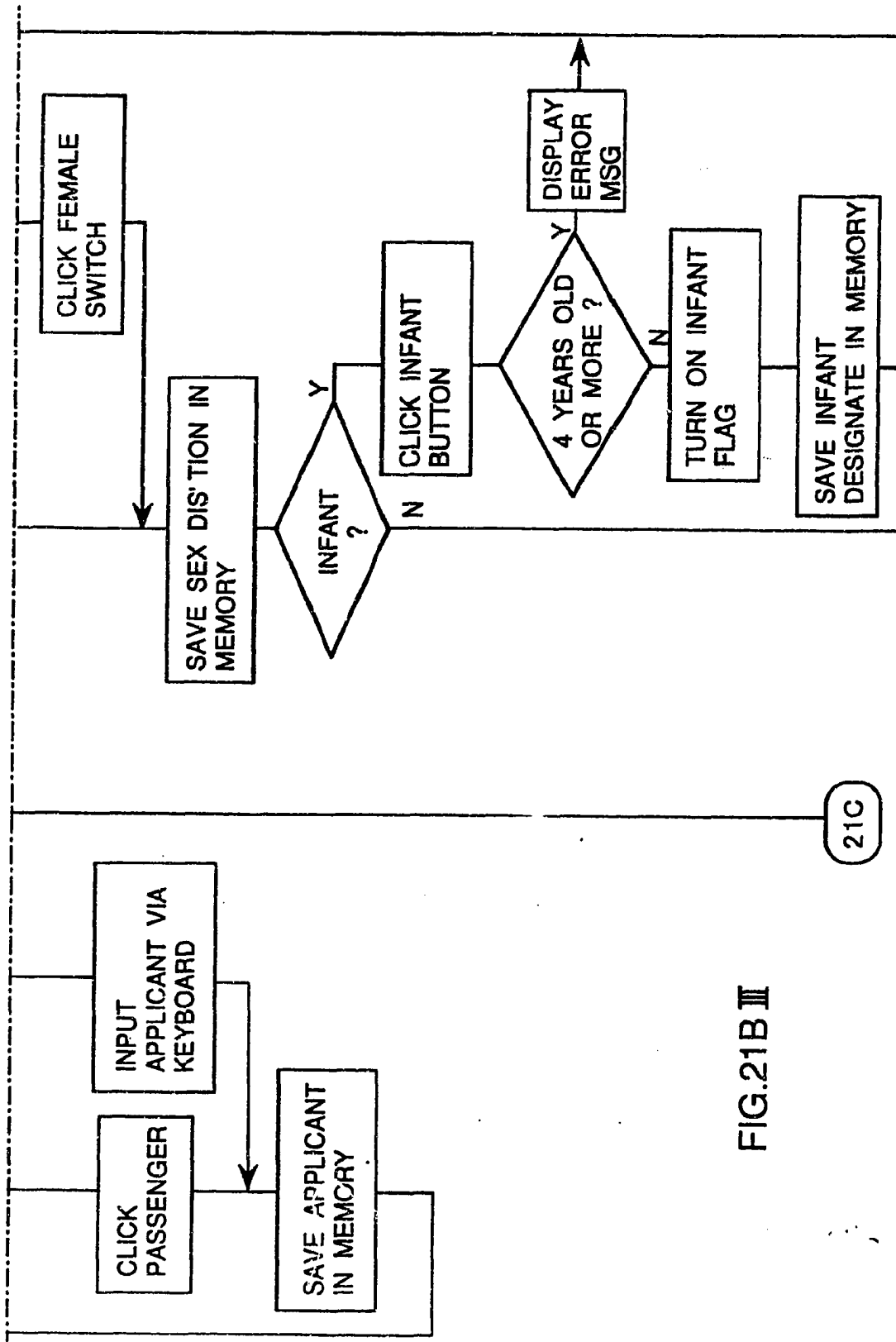


FIG. 21B III

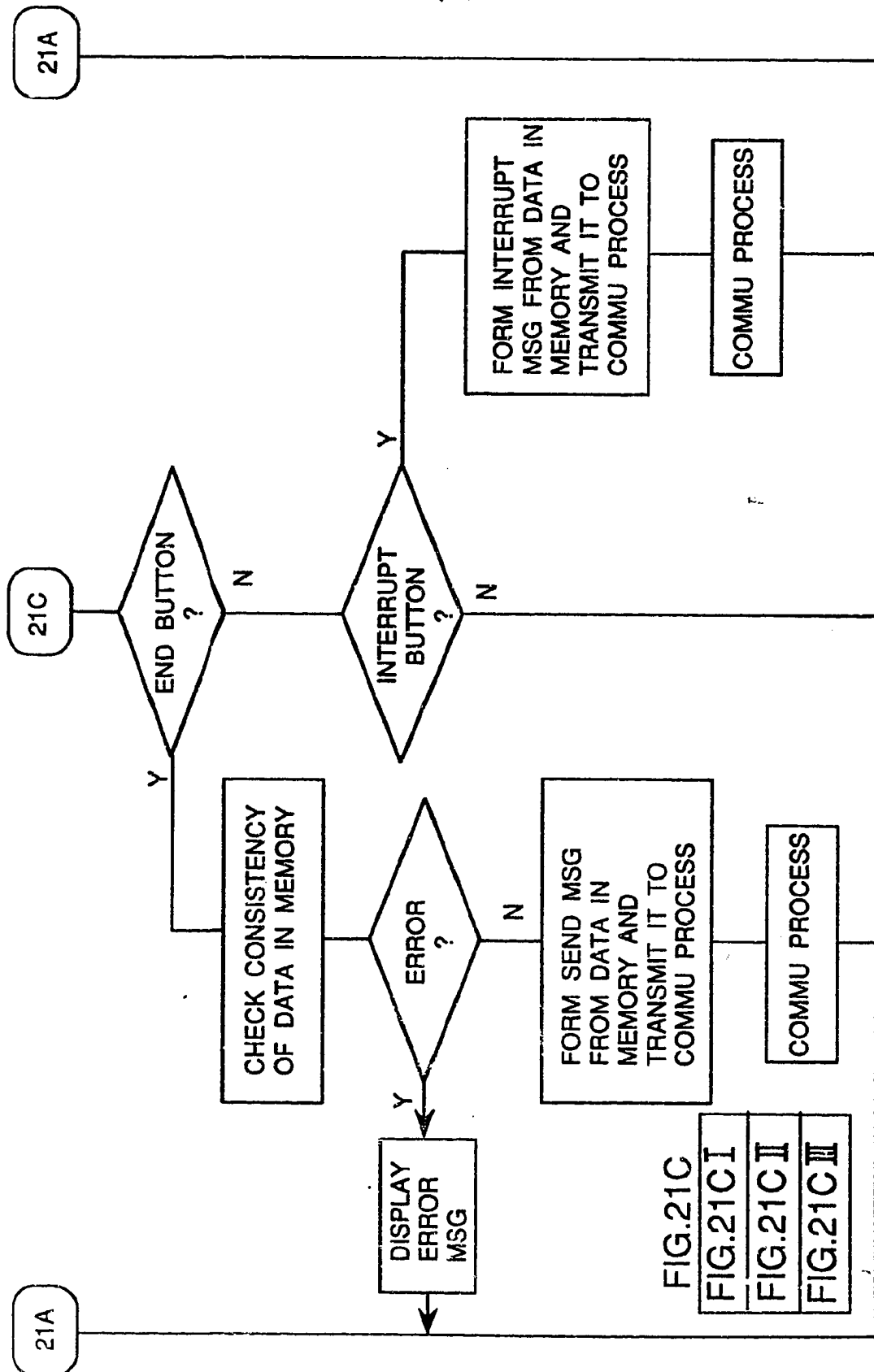


FIG. 21C I

FIG. 21C  
 FIG. 21C I  
 FIG. 21C II  
 FIG. 21C III

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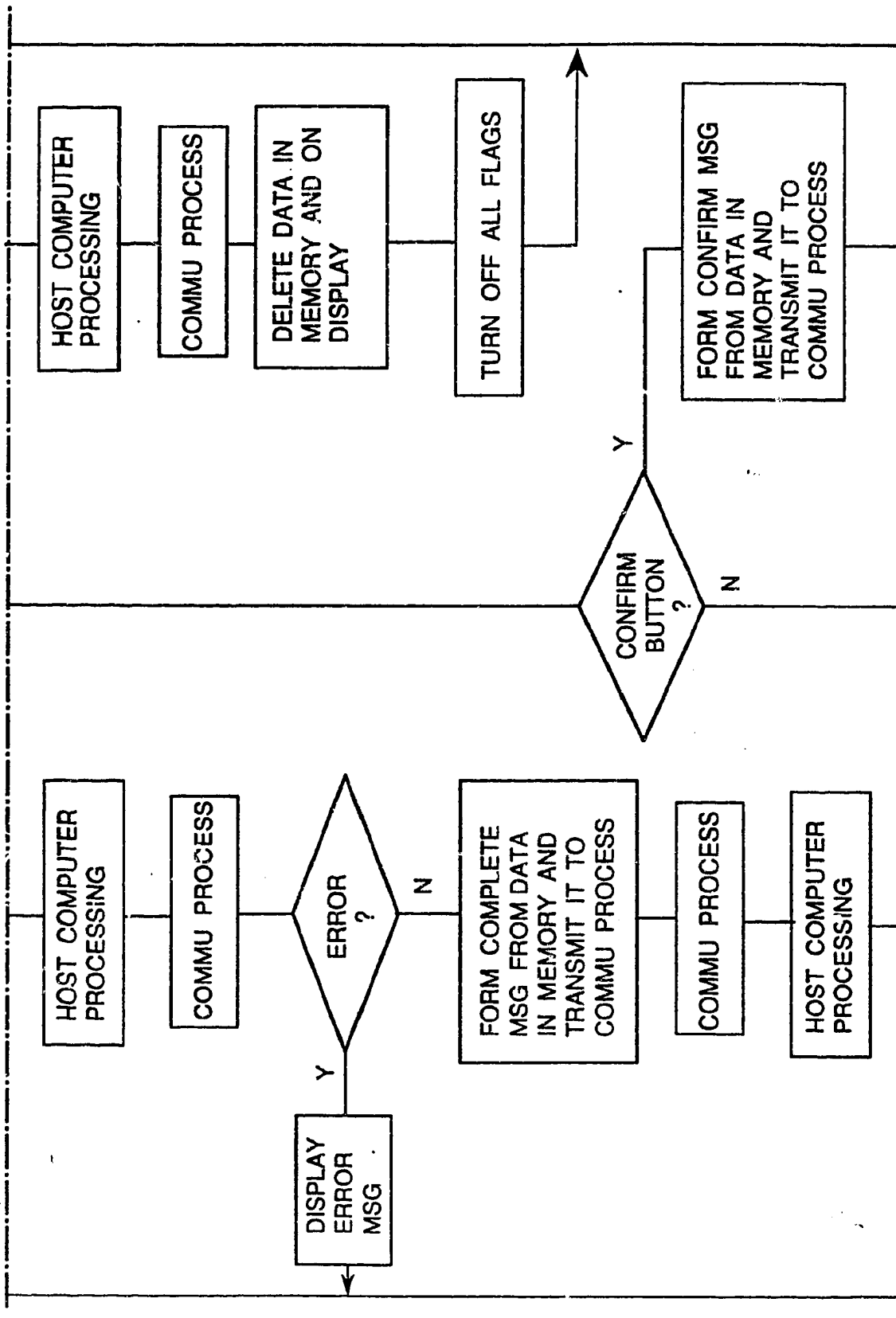


FIG. 21C II

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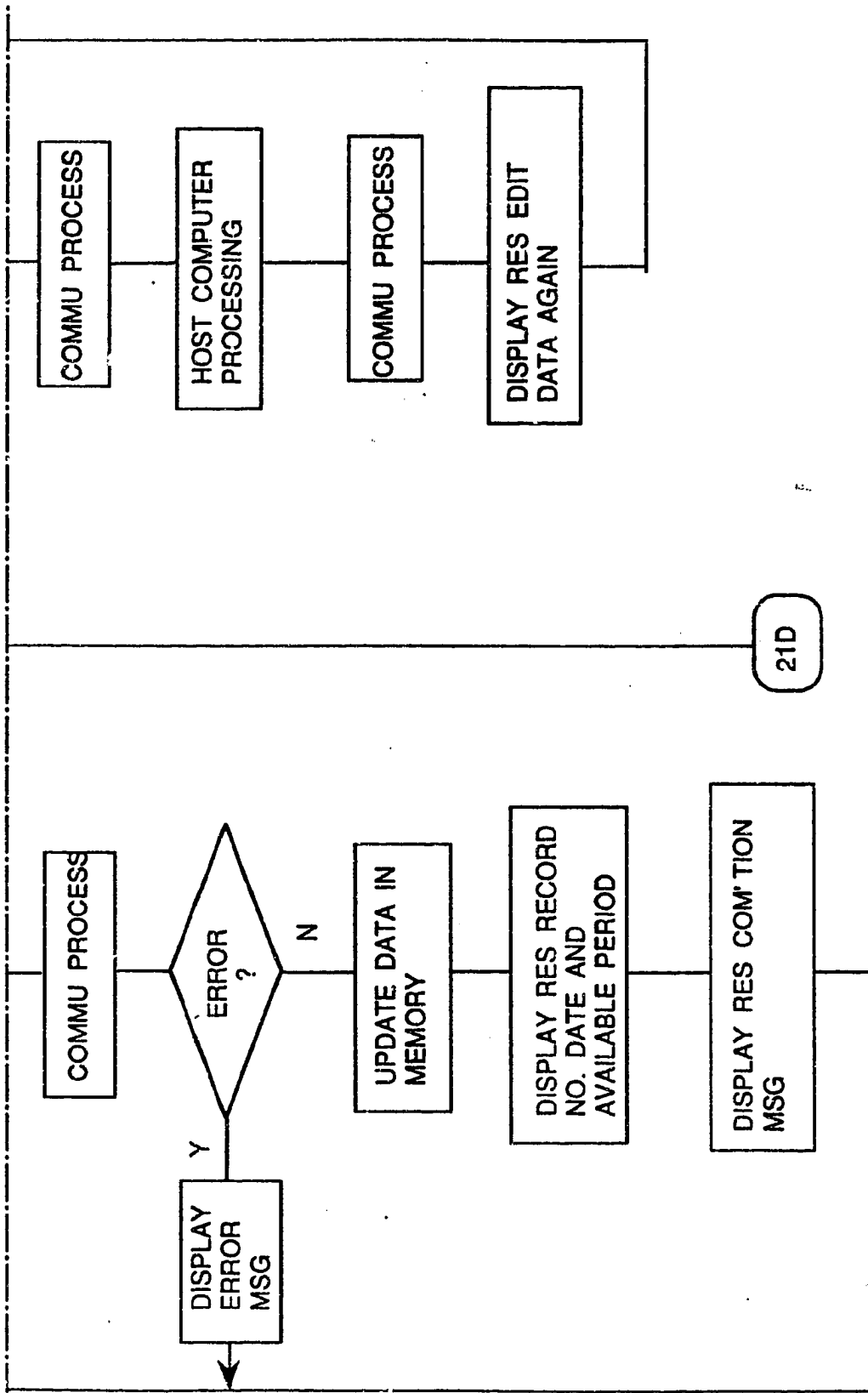


FIG. 21CIII

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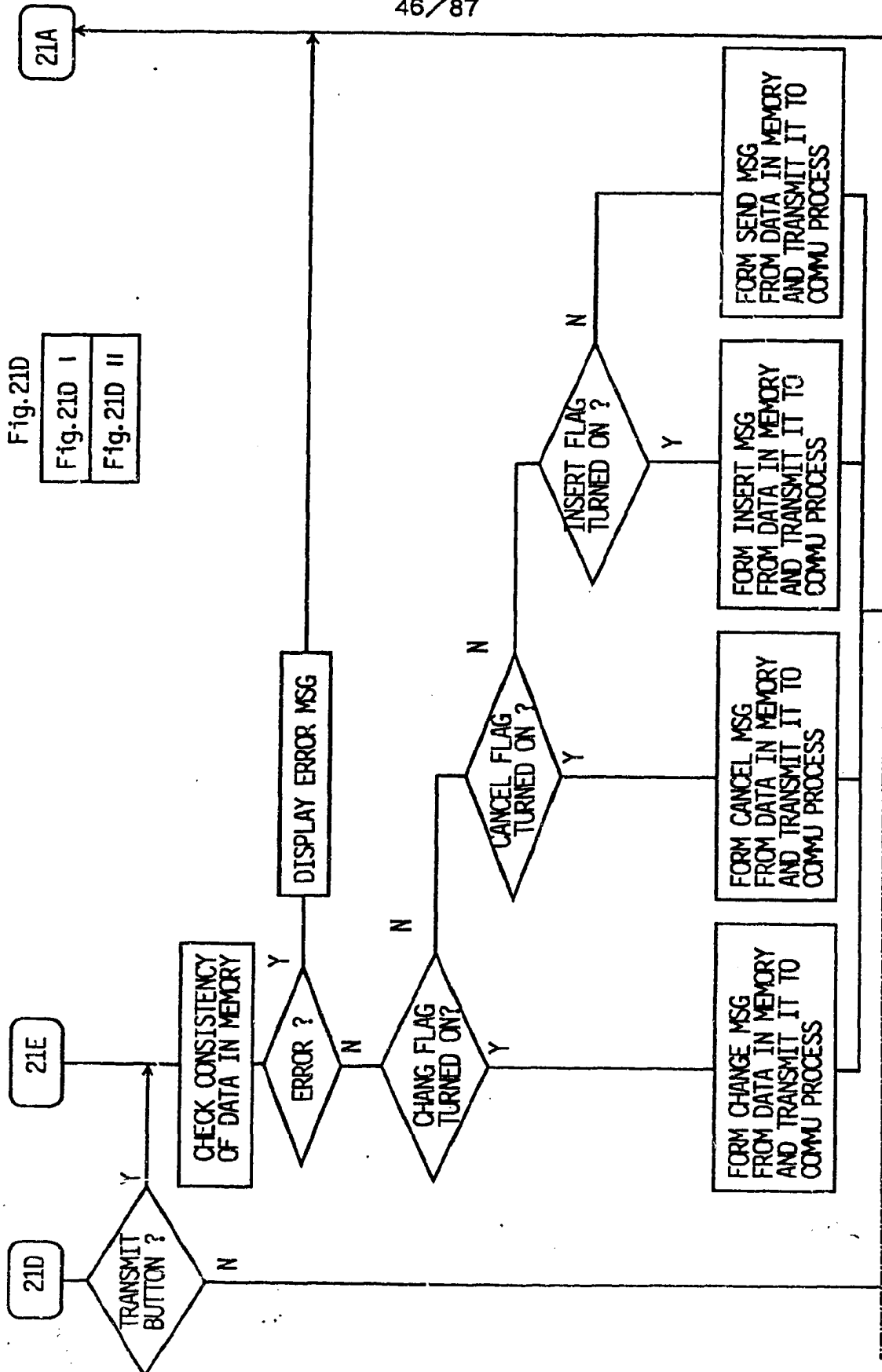


FIG. 21D I



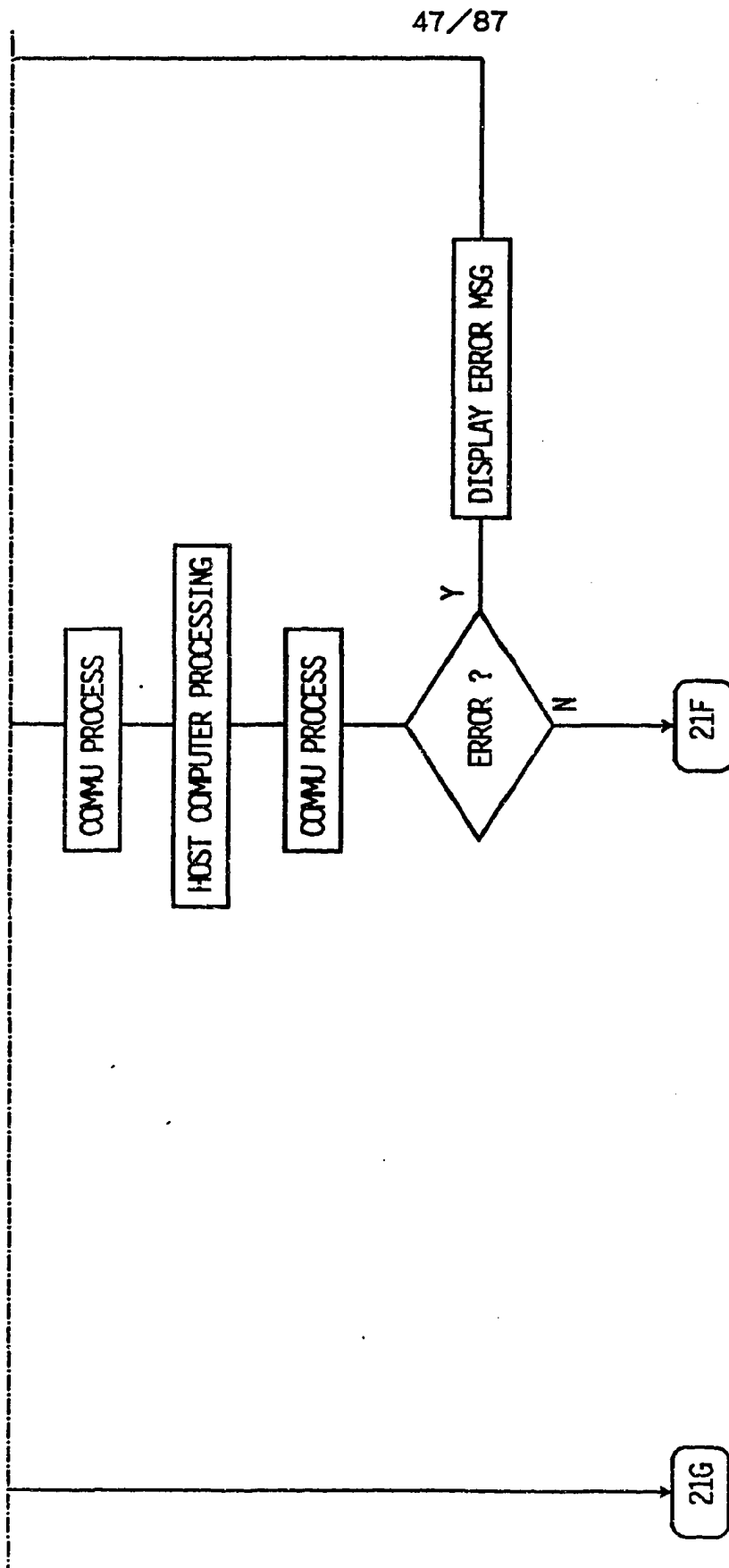


FIG. 21D II

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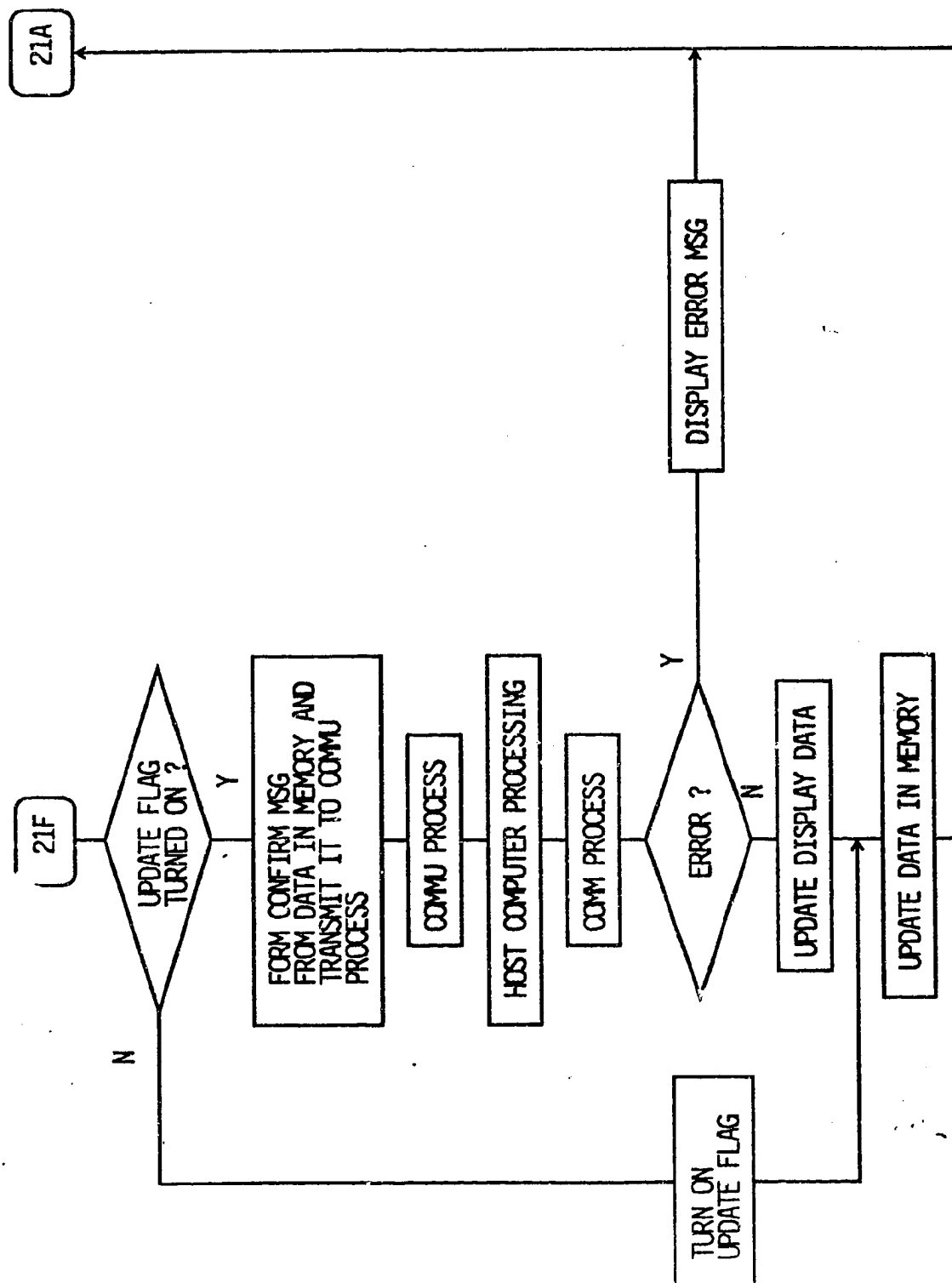


FIG. 21E

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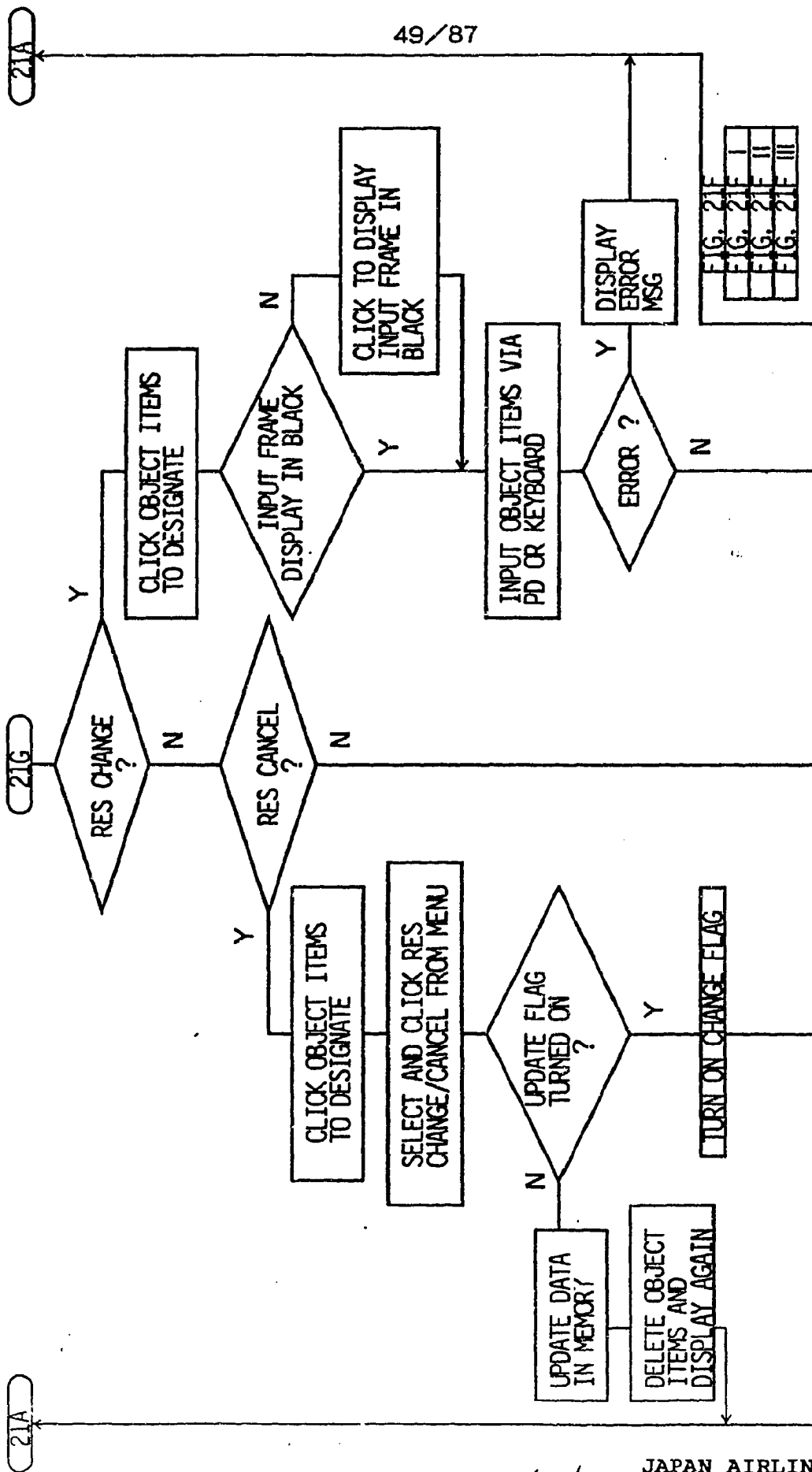


FIG. 21F I

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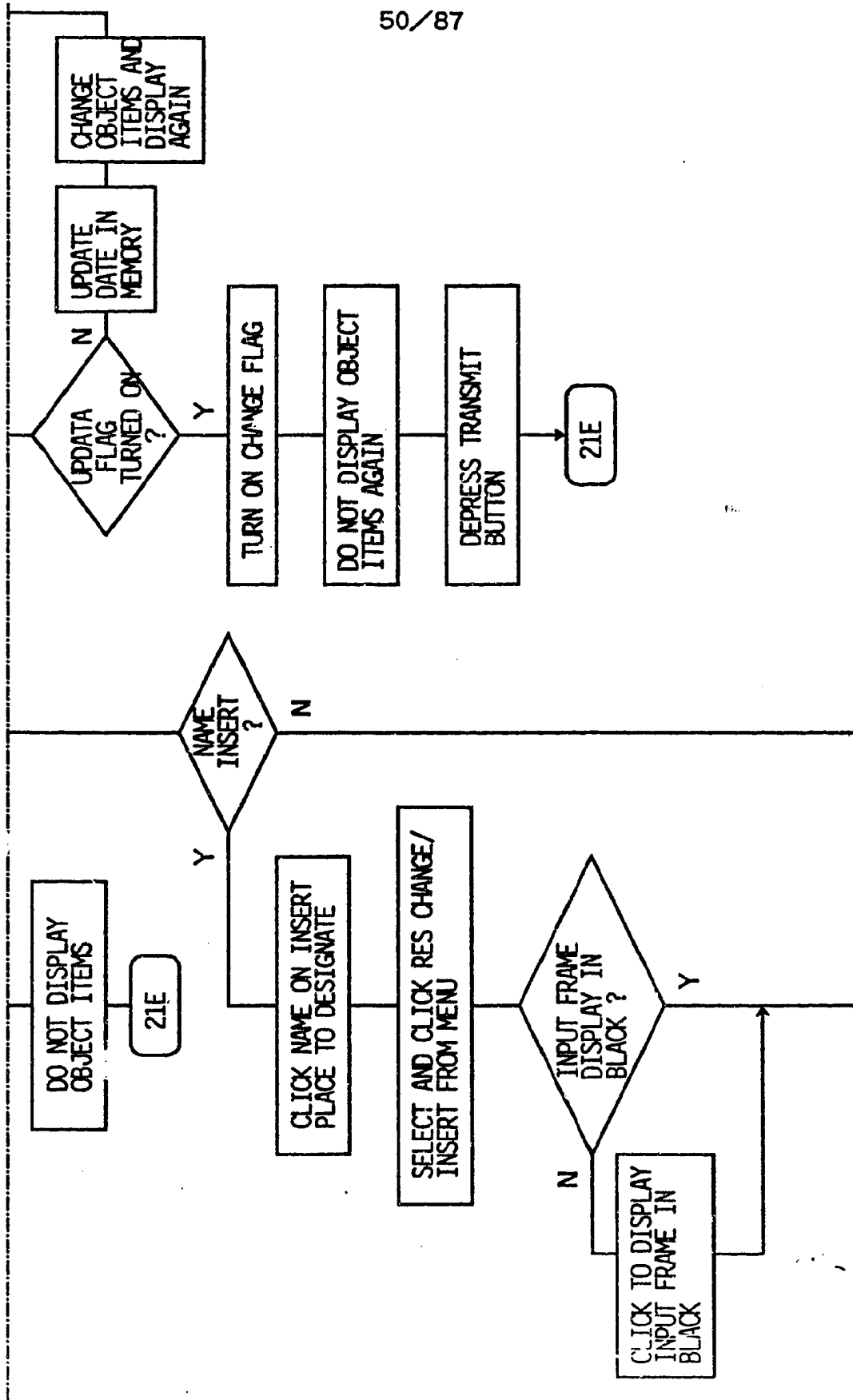


FIG. 21F II

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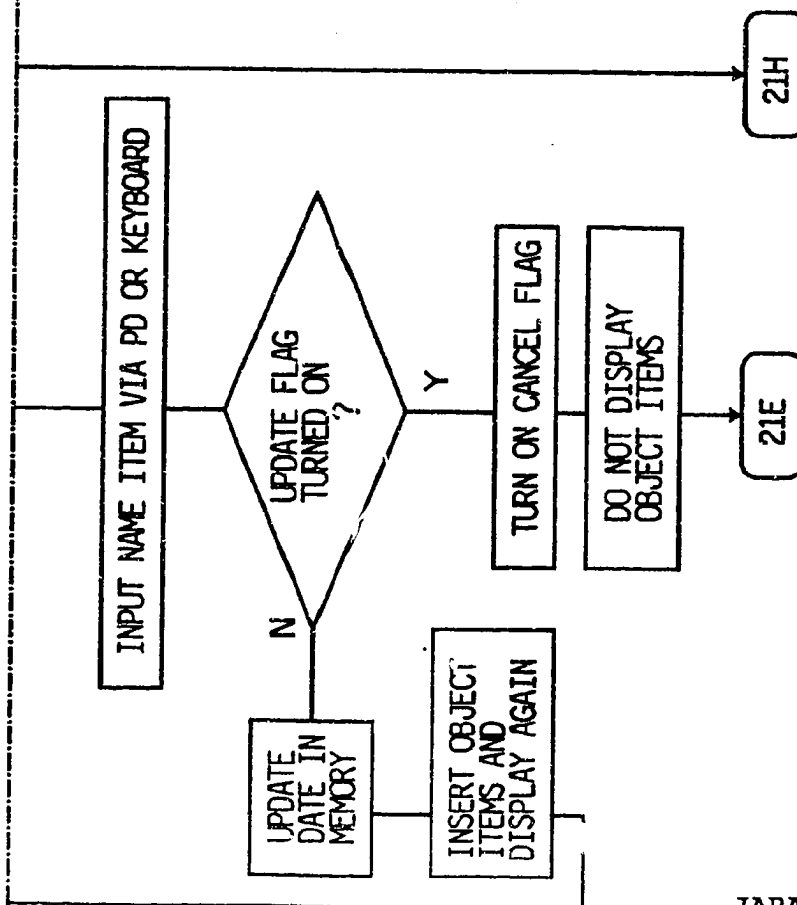


FIG. 21F III

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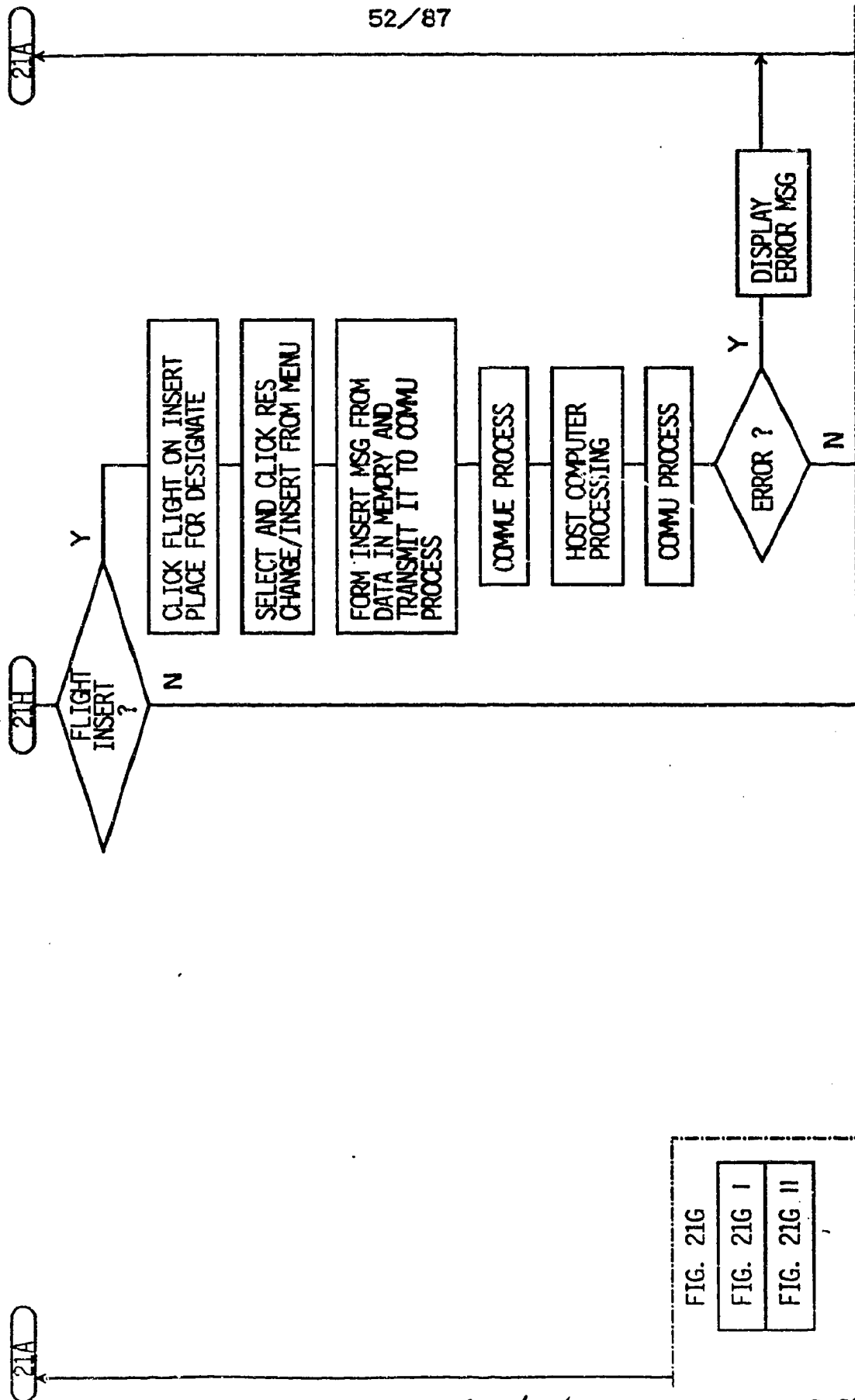


FIG. 21G I

FIG. 21G

FIG. 21G I

FIG. 21G II

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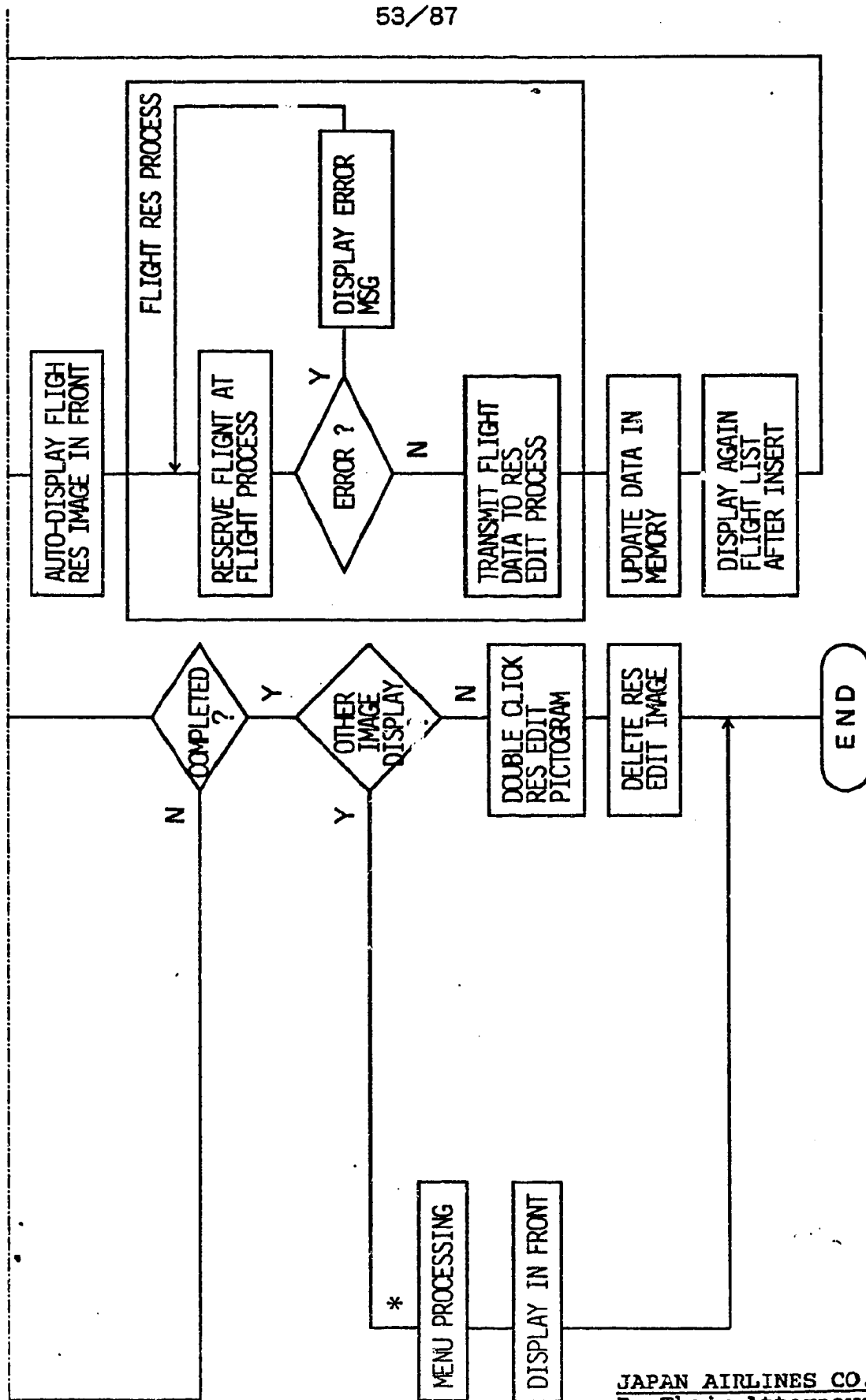


FIG. 21G II

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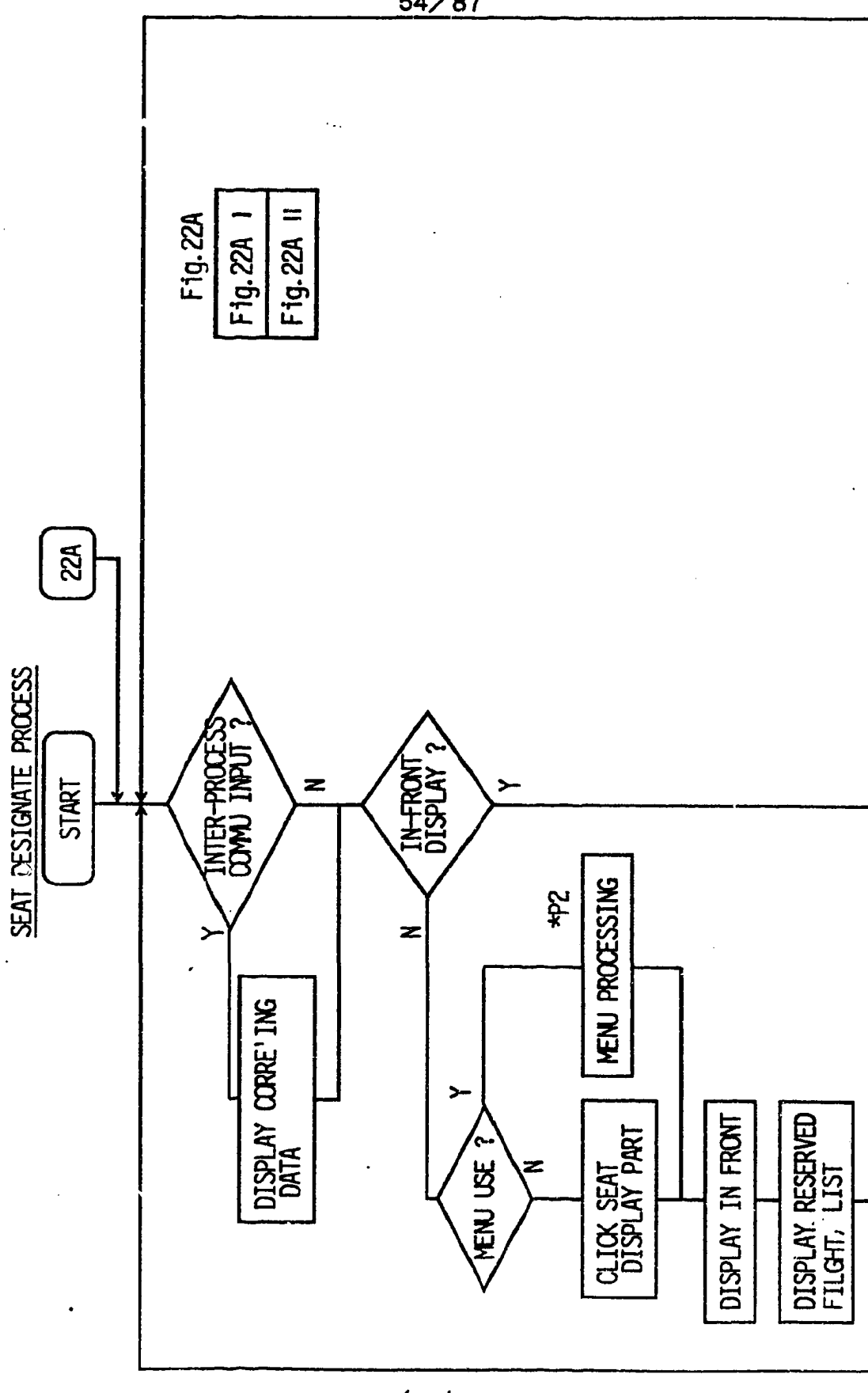


FIG. 22A I

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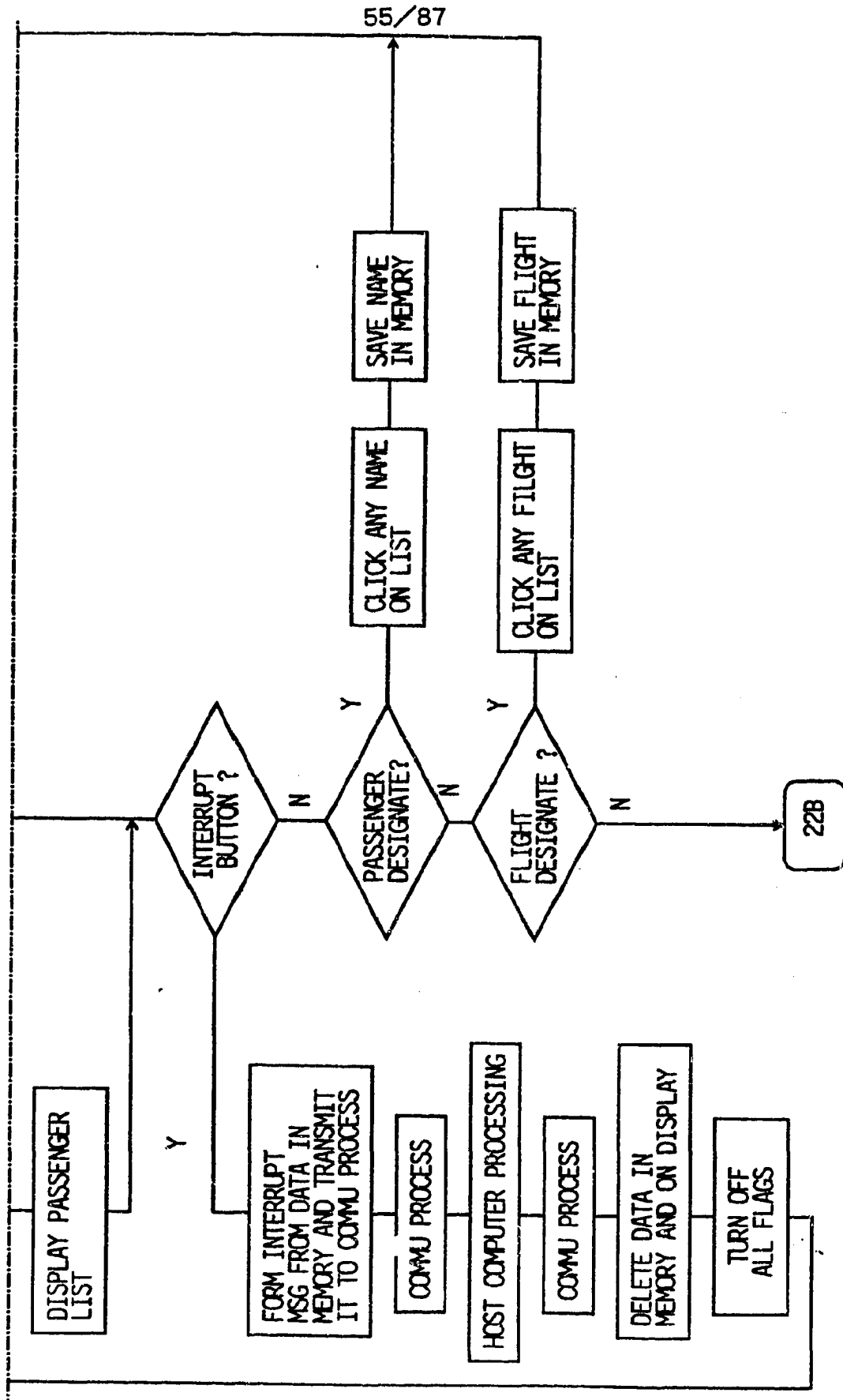


FIG. 22A II

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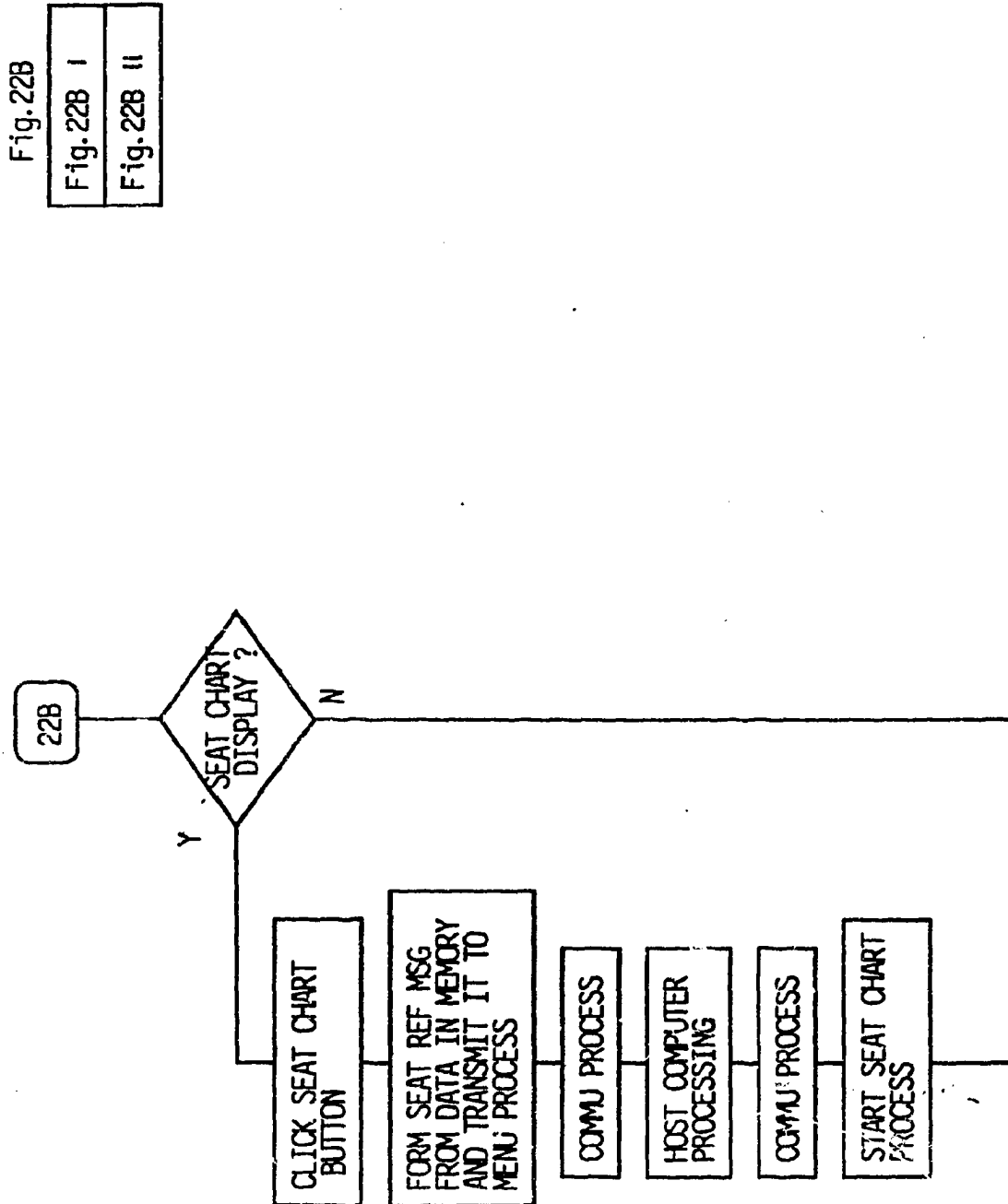


FIG. 22B I

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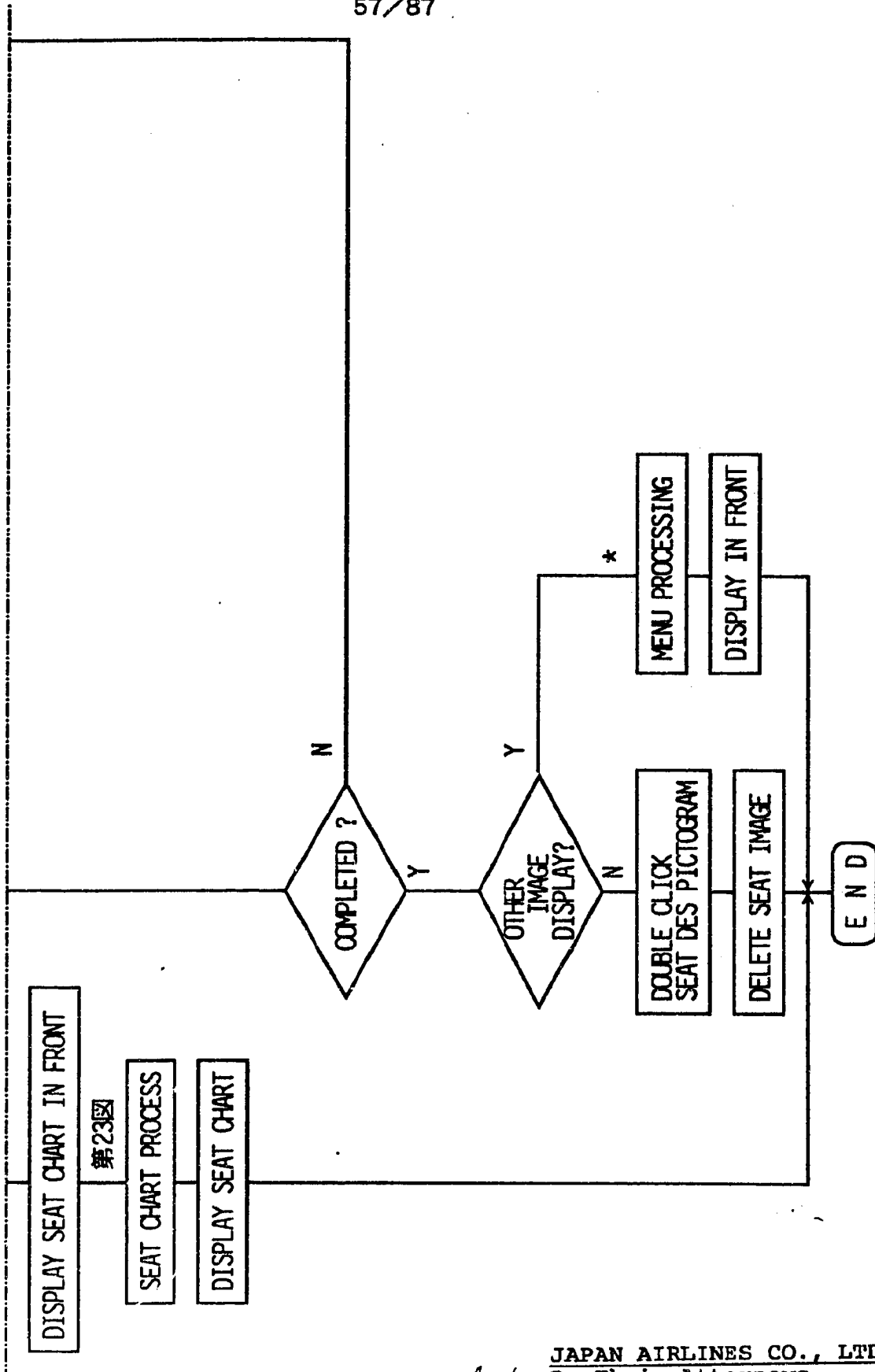


FIG. 22B II

*J. A. Andrews*

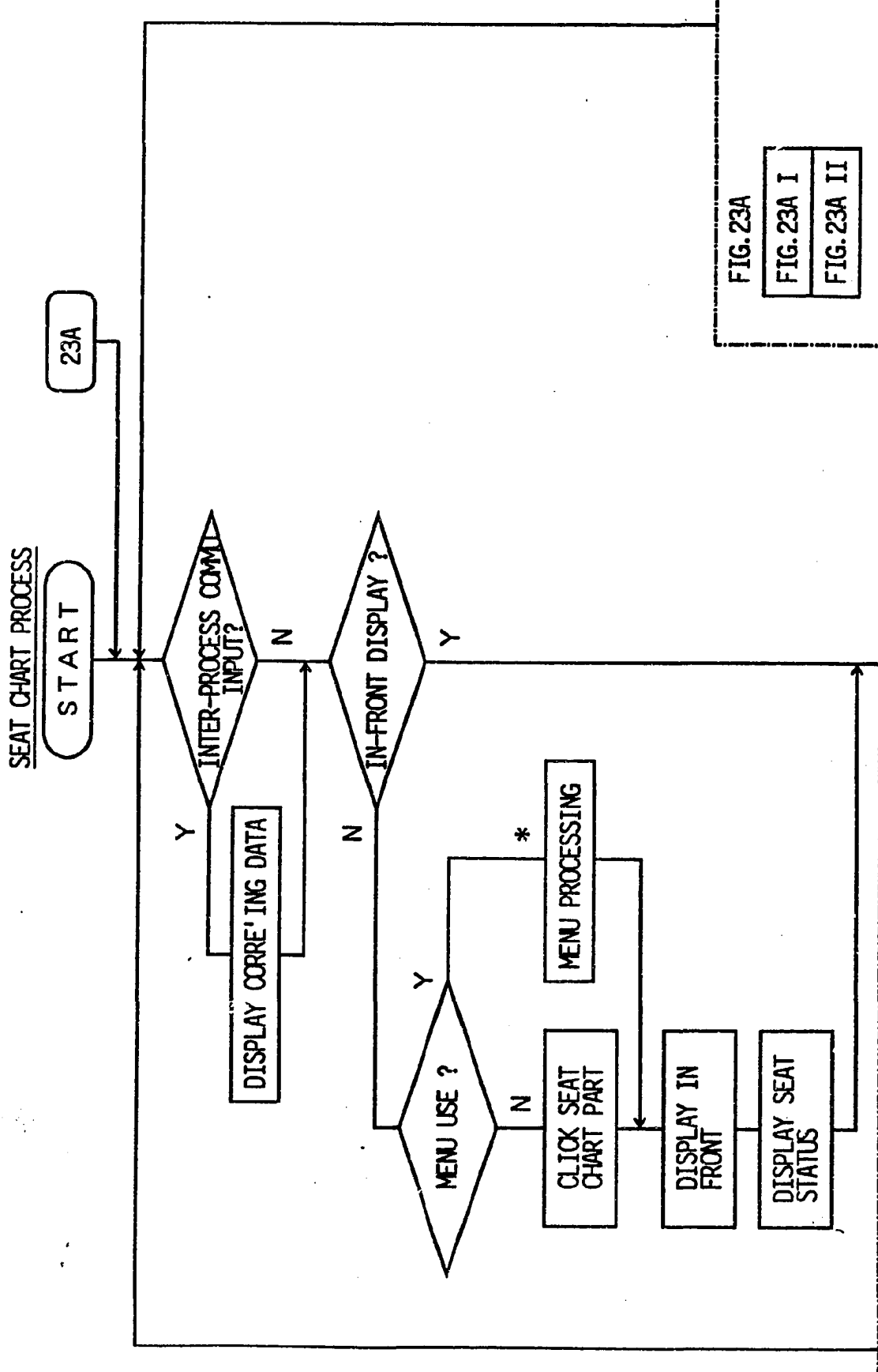


FIG. 23A I

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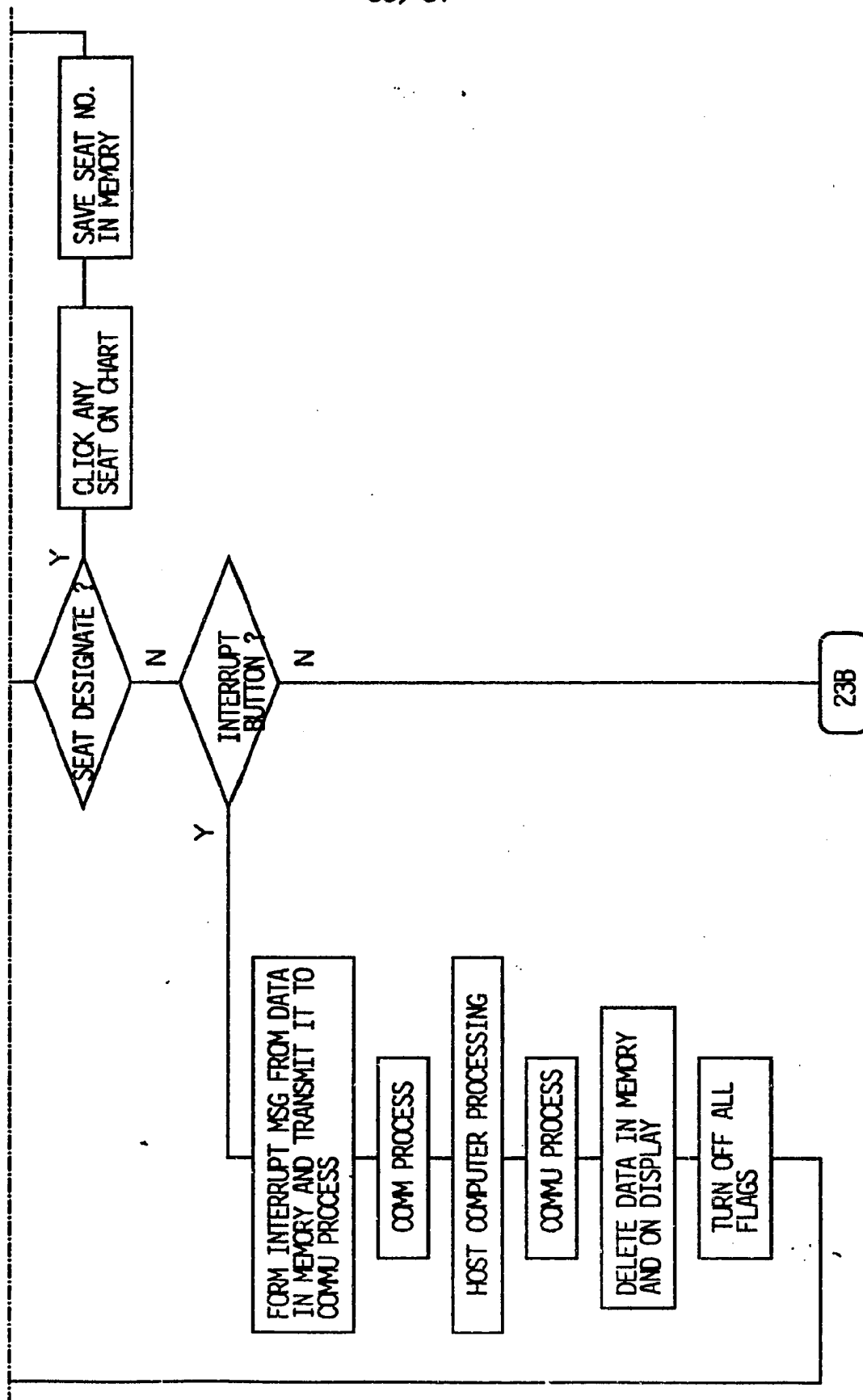


FIG. 23A II

*J. A. Andrews*

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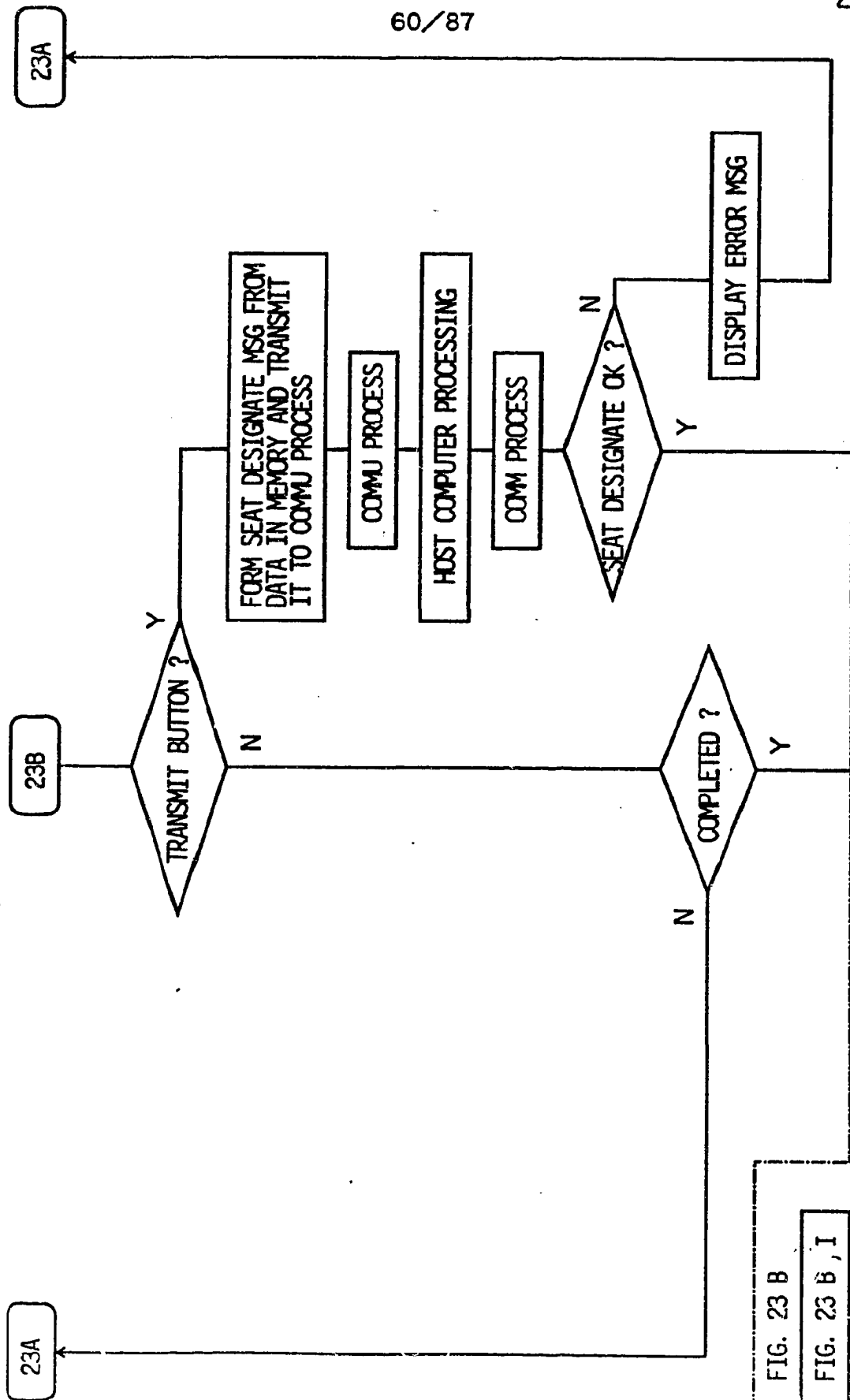


FIG. 23B I

FIG. 23 B

FIG. 23 B, I

FIG. 23 B II

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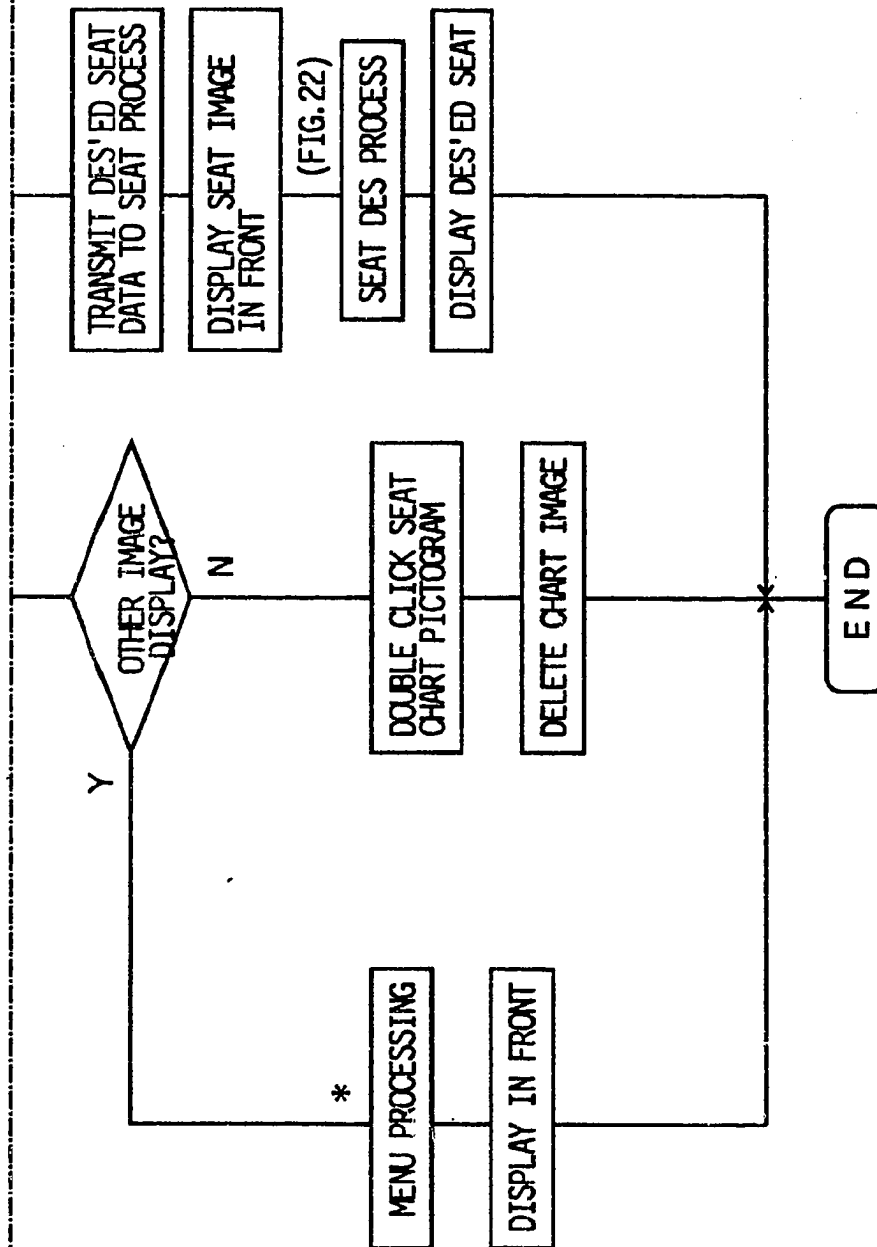


FIG. 23B II

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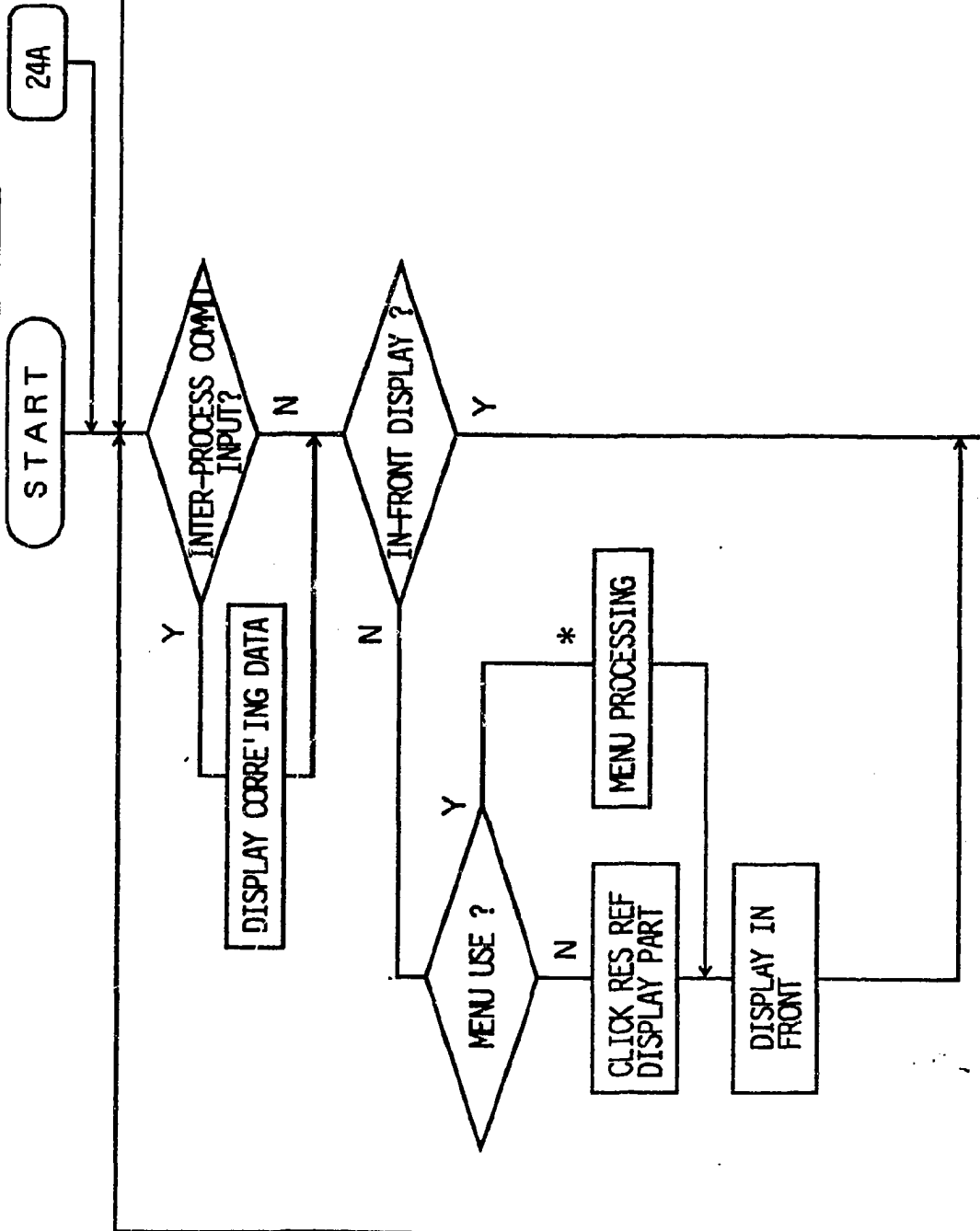
RESERVE RECORD REFERENCE PROCESS

FIG. 24A

FIG. 24A I
FIG. 24A II
FIG. 24A III

FIG. 24A I

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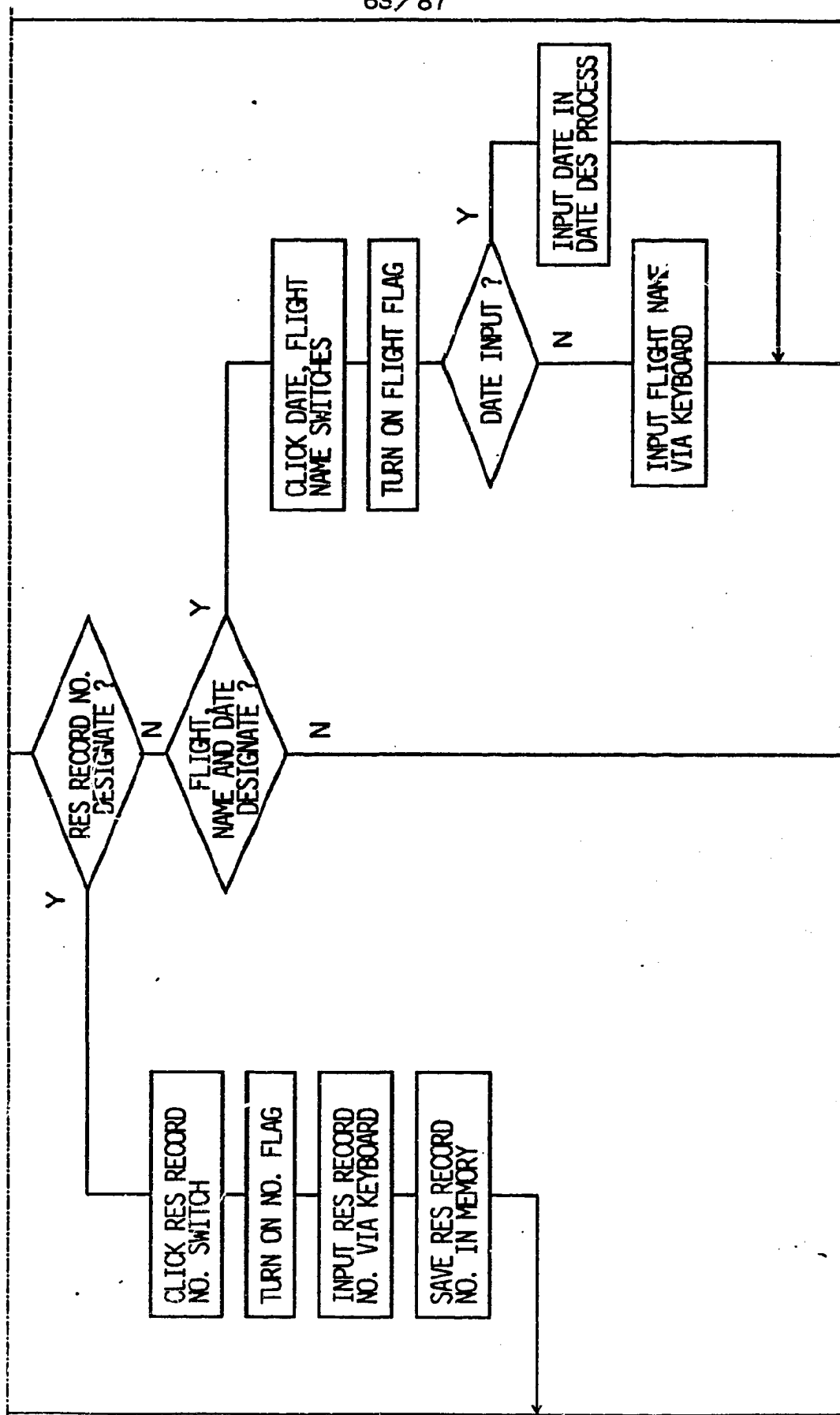


FIG. 24A II

*Andrew*

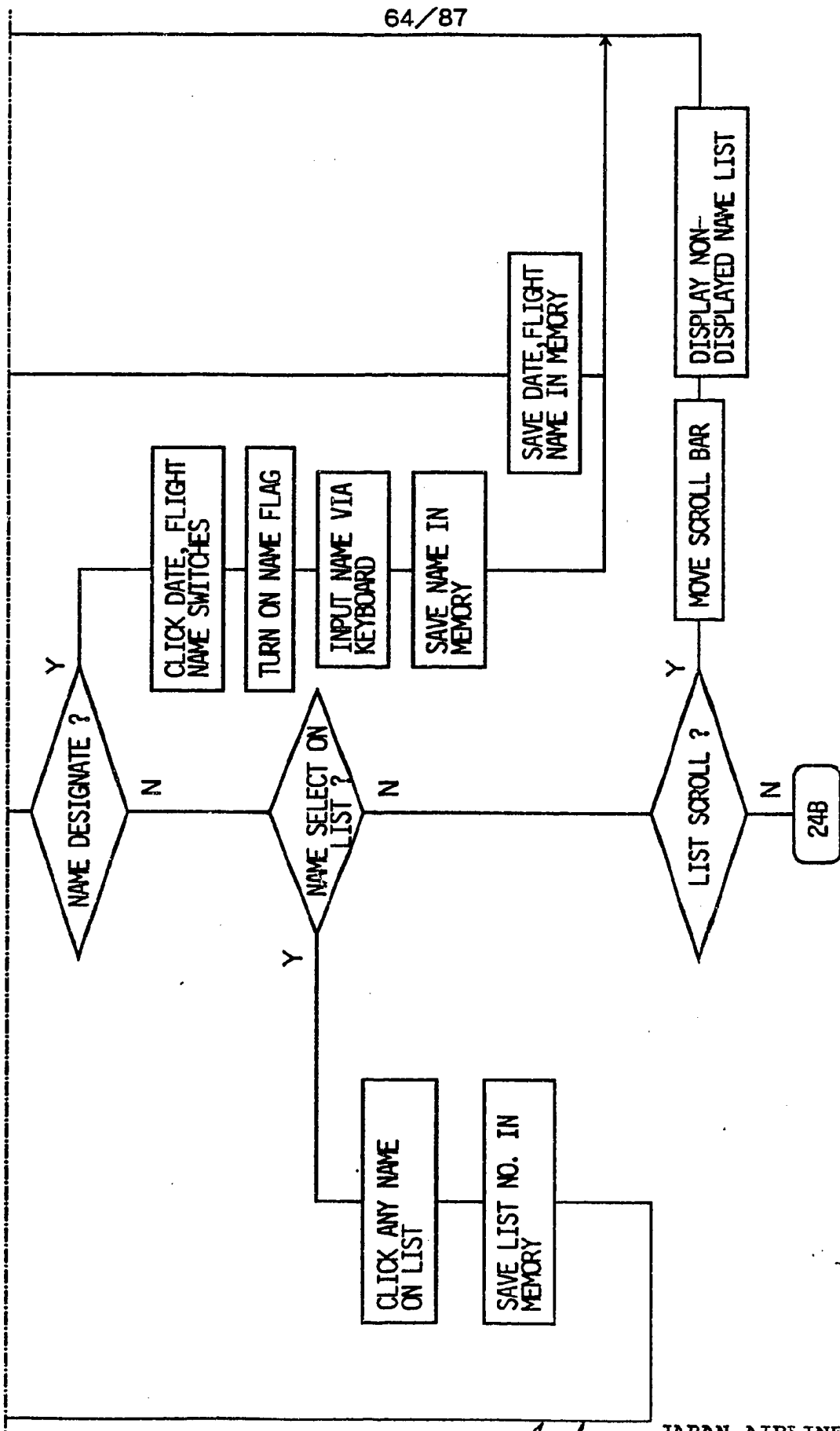


FIG. 24A III

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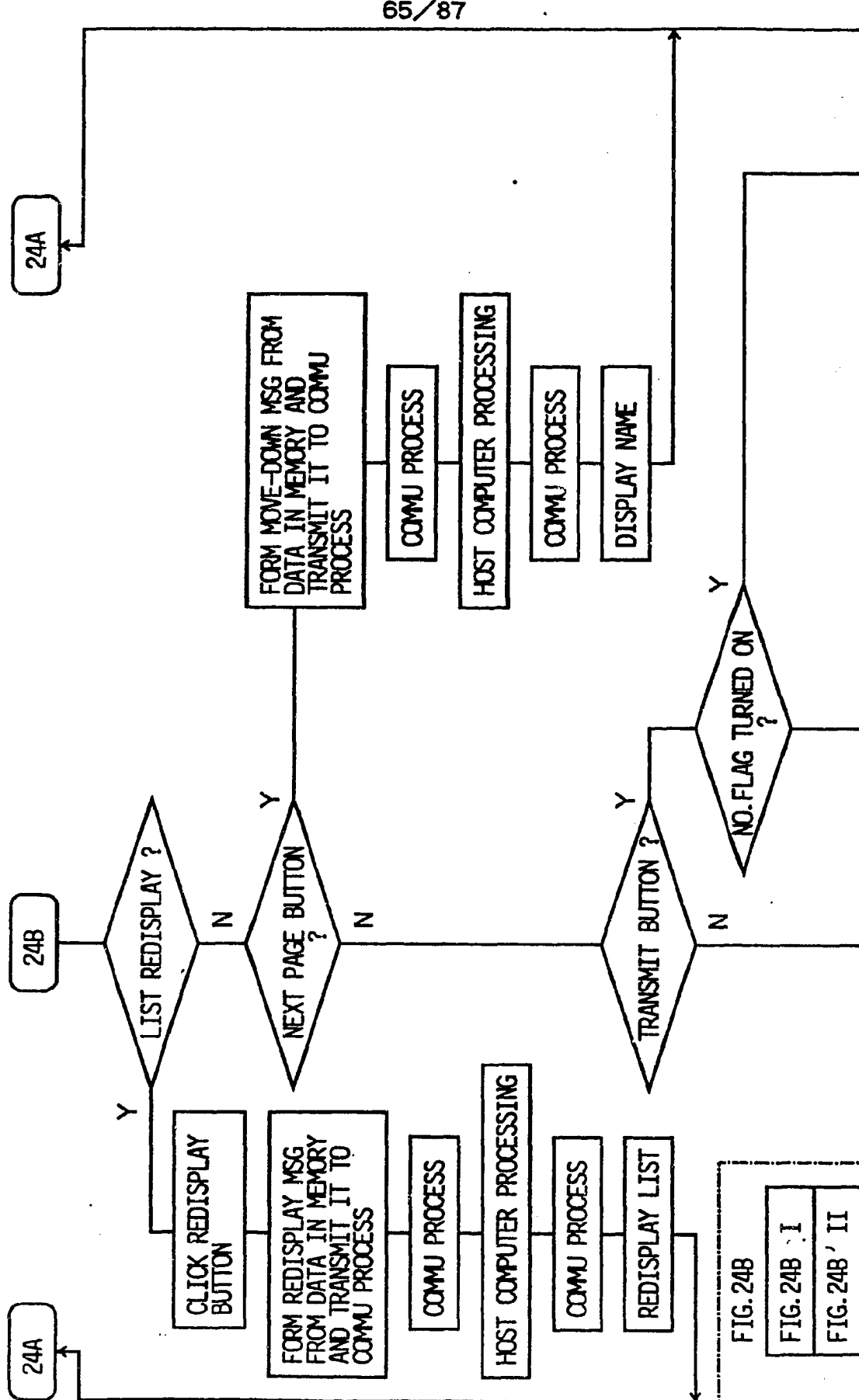


FIG. 24B I

FIG. 24B

FIG. 24B I

FIG. 24B II

FIG. 24B III

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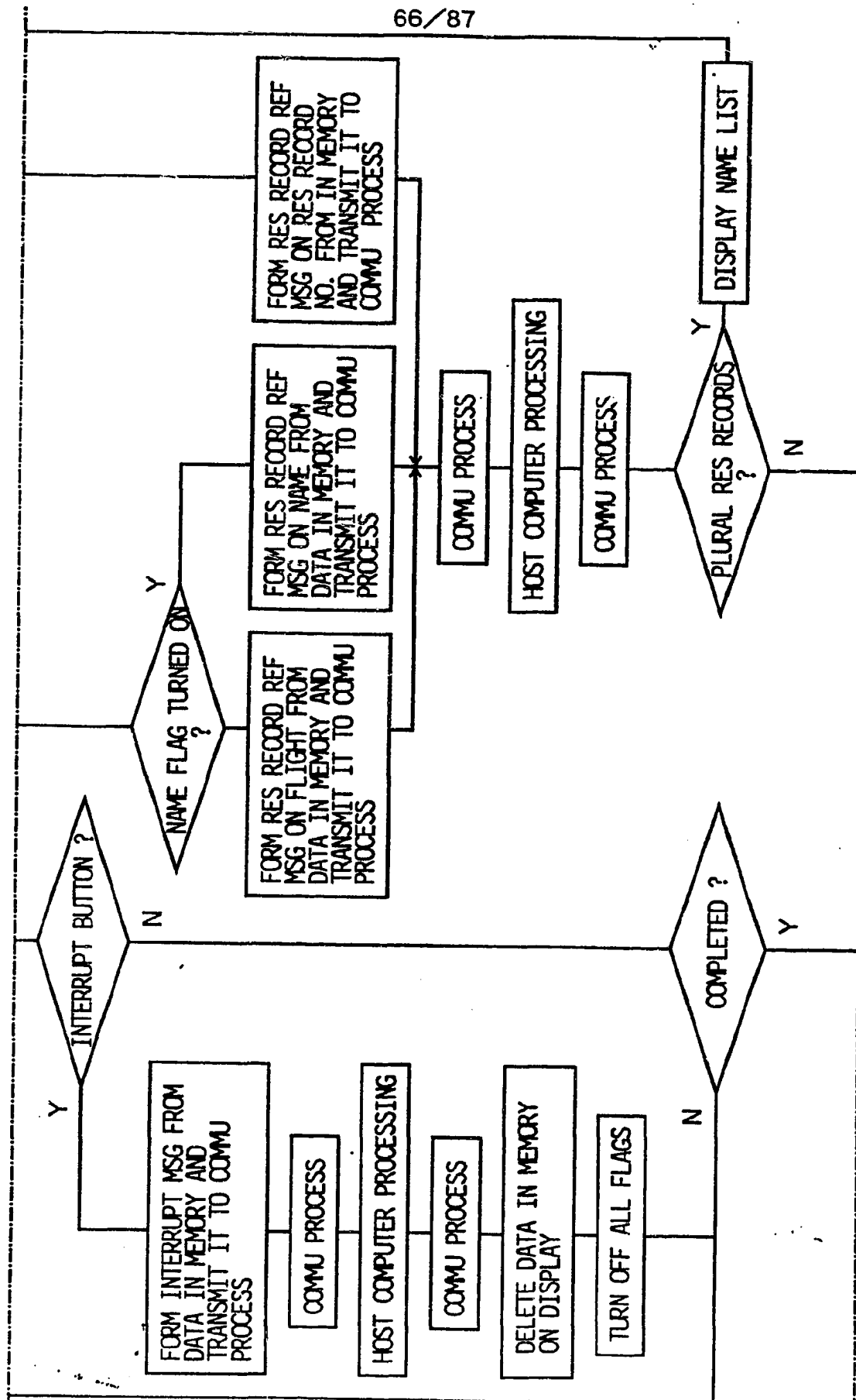


FIG. 24B II

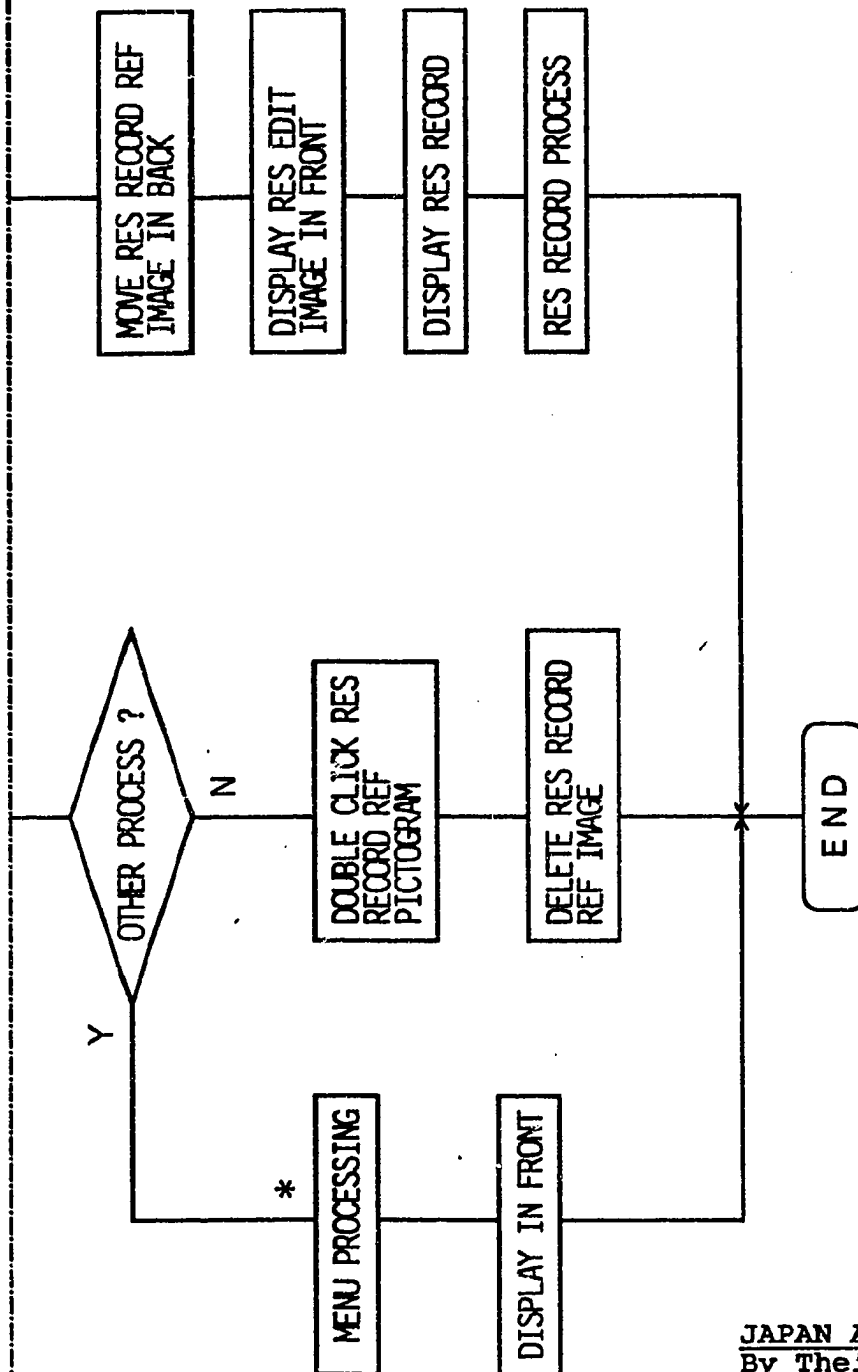
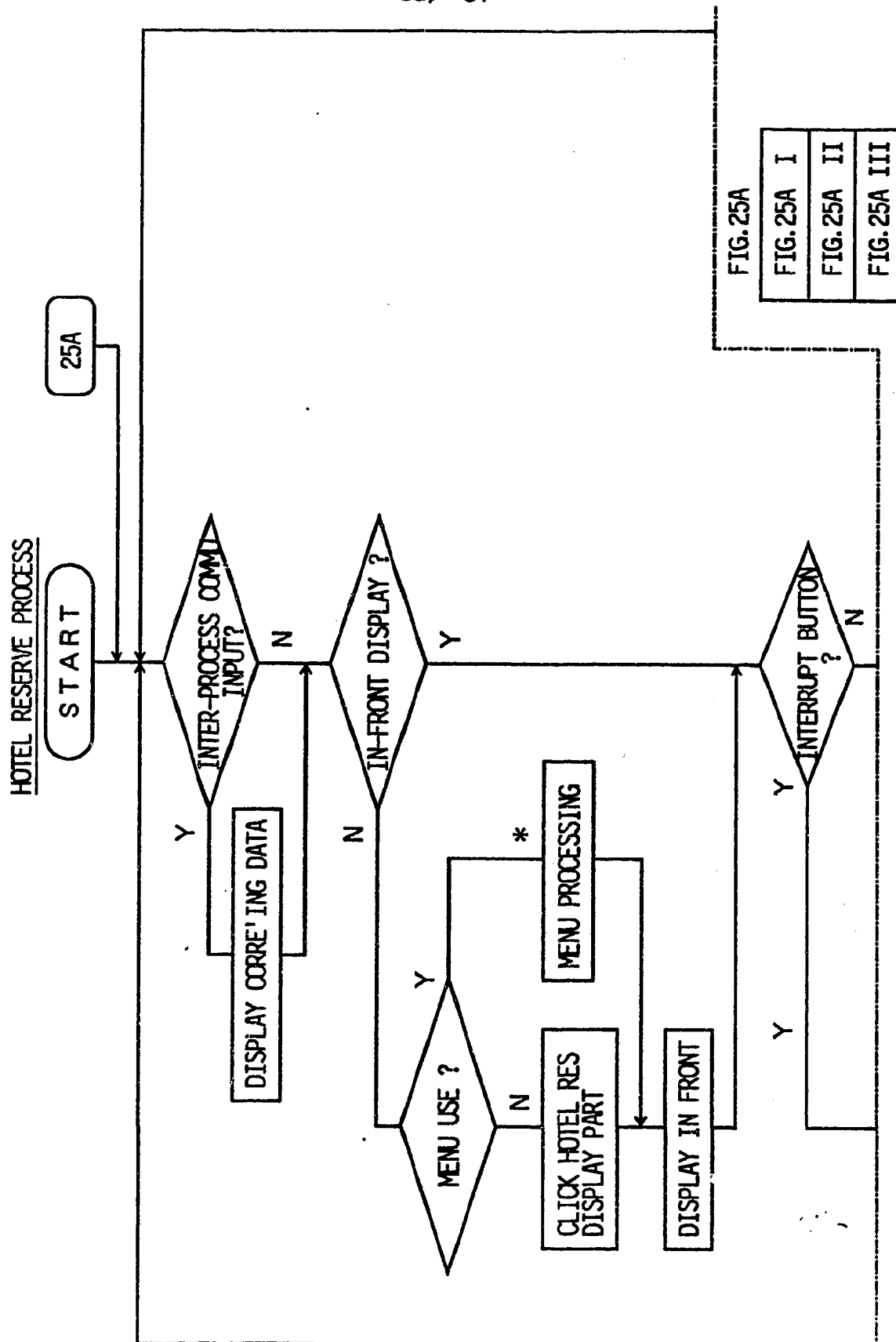


FIG. 24B III

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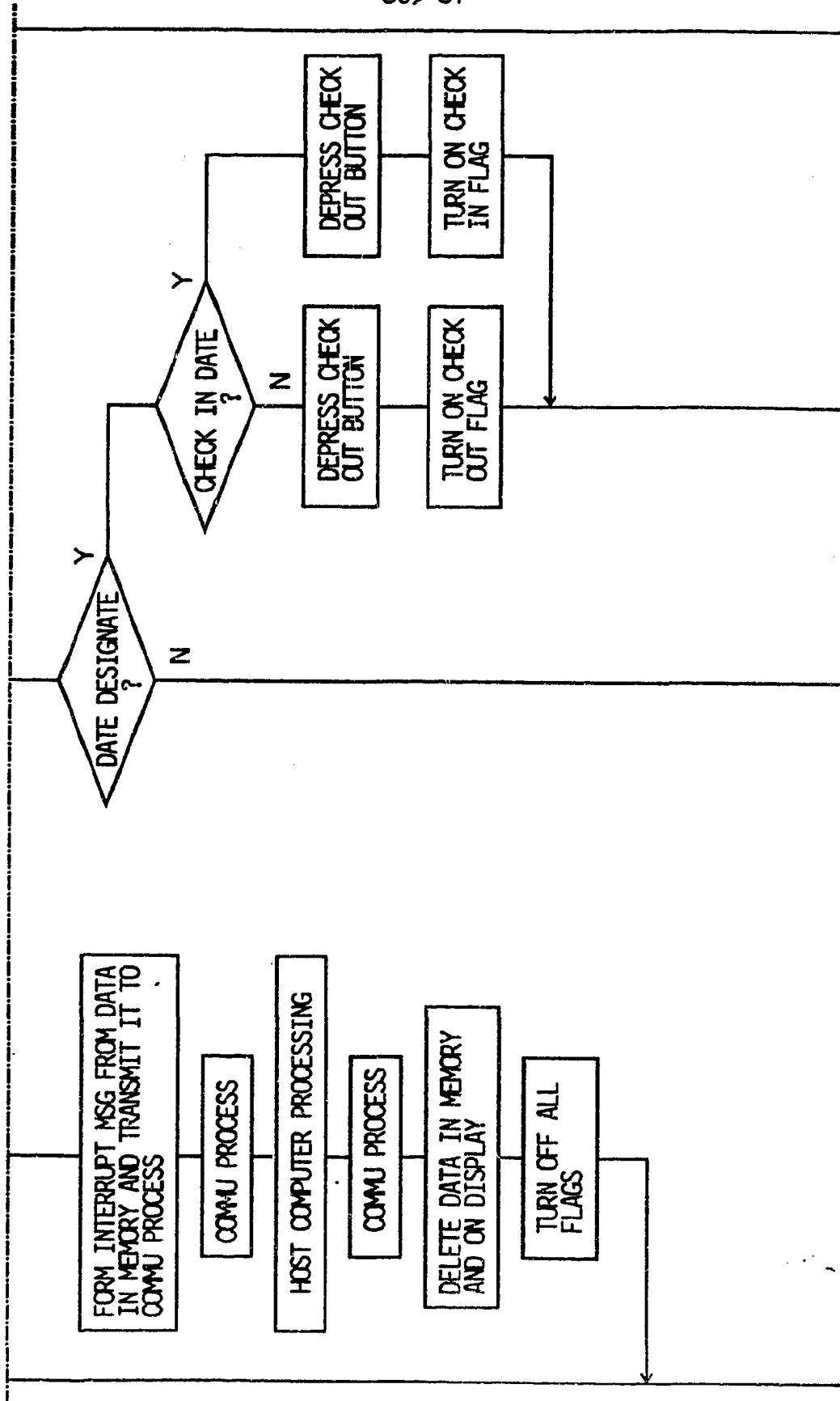


FIG. 25A II

FIG. 25AIII

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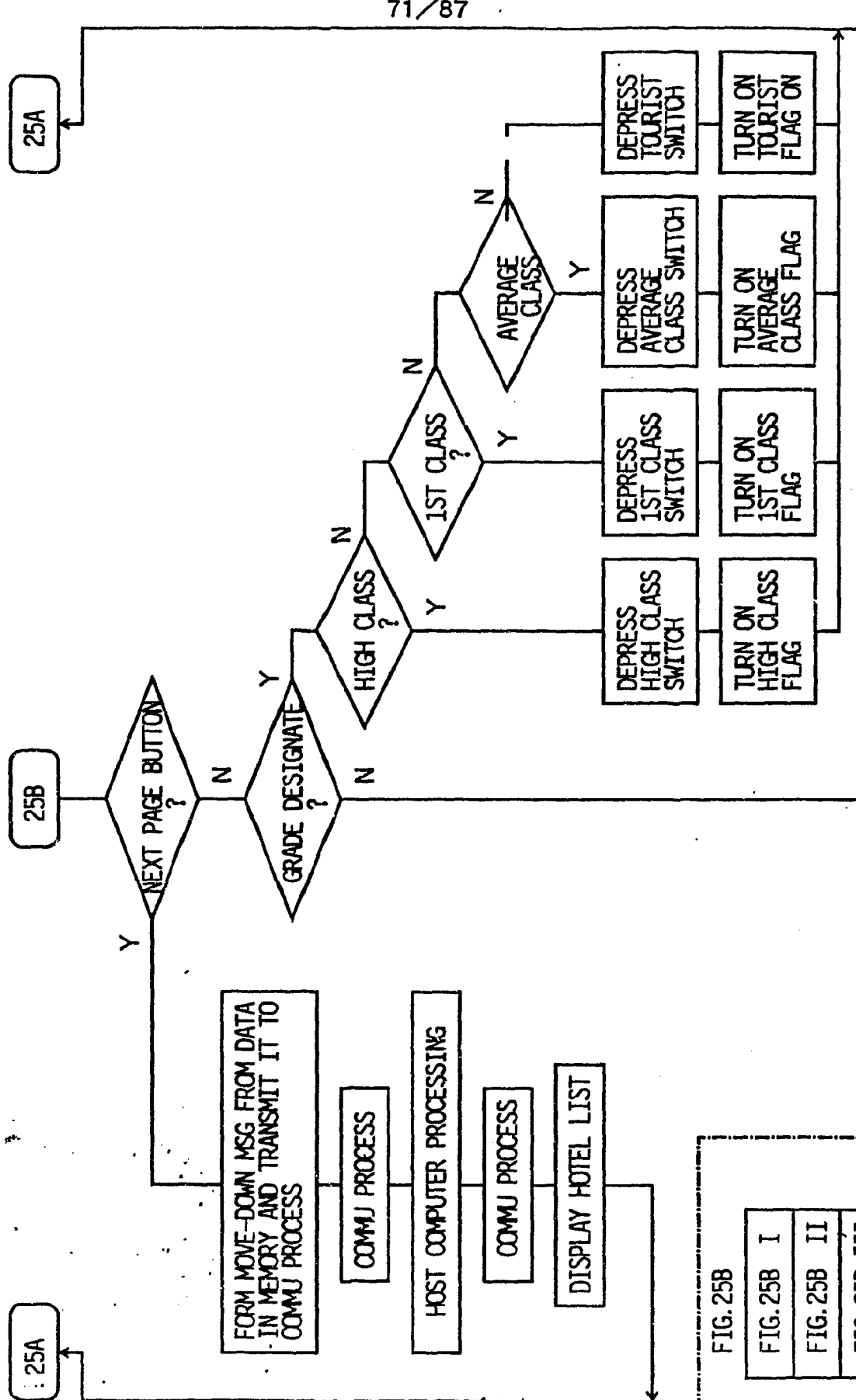


FIG. 25B I

FIG. 25B

FIG. 25B I

FIG. 25B II

FIG. 25B III

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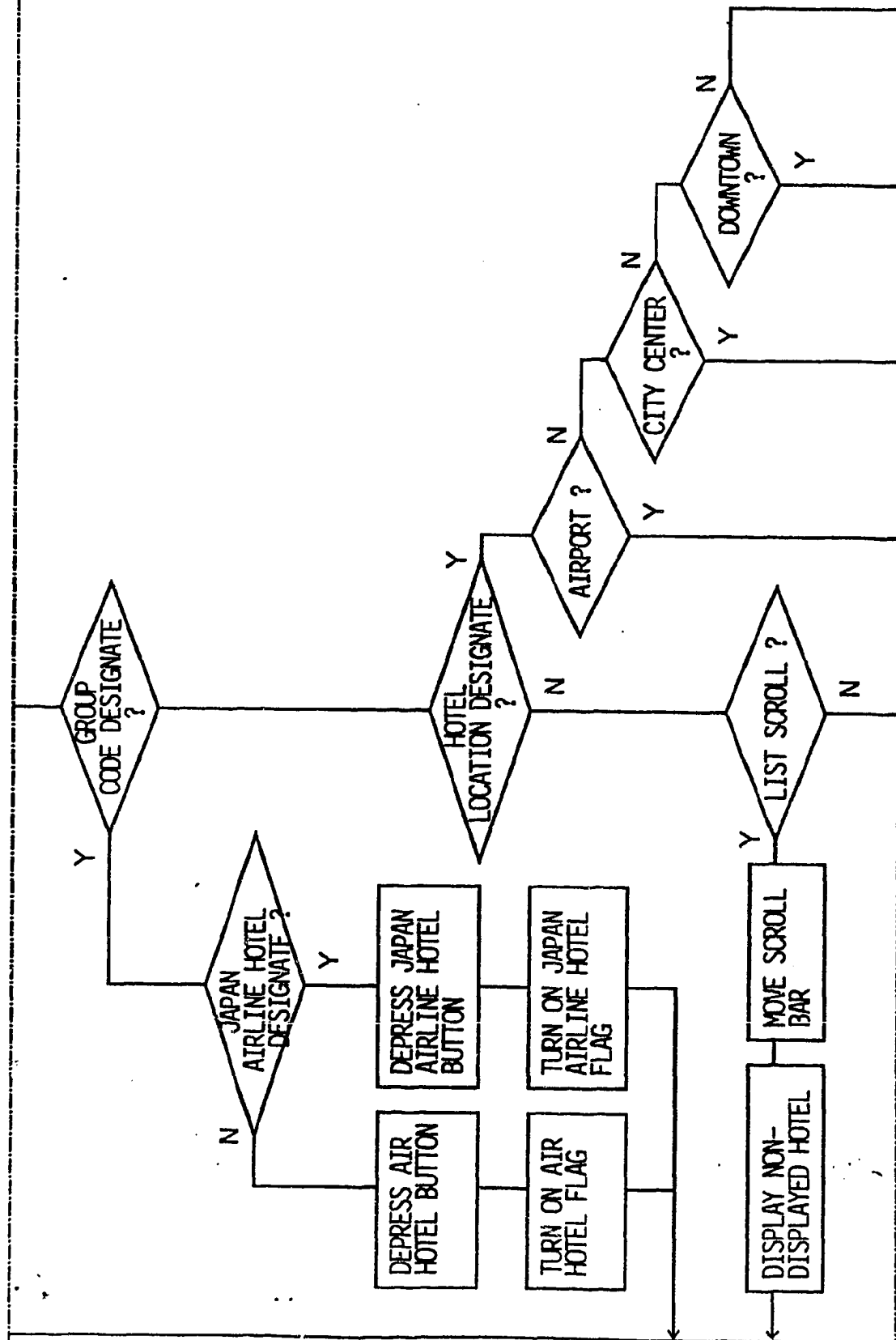


FIG. 25B II

*Andrews*

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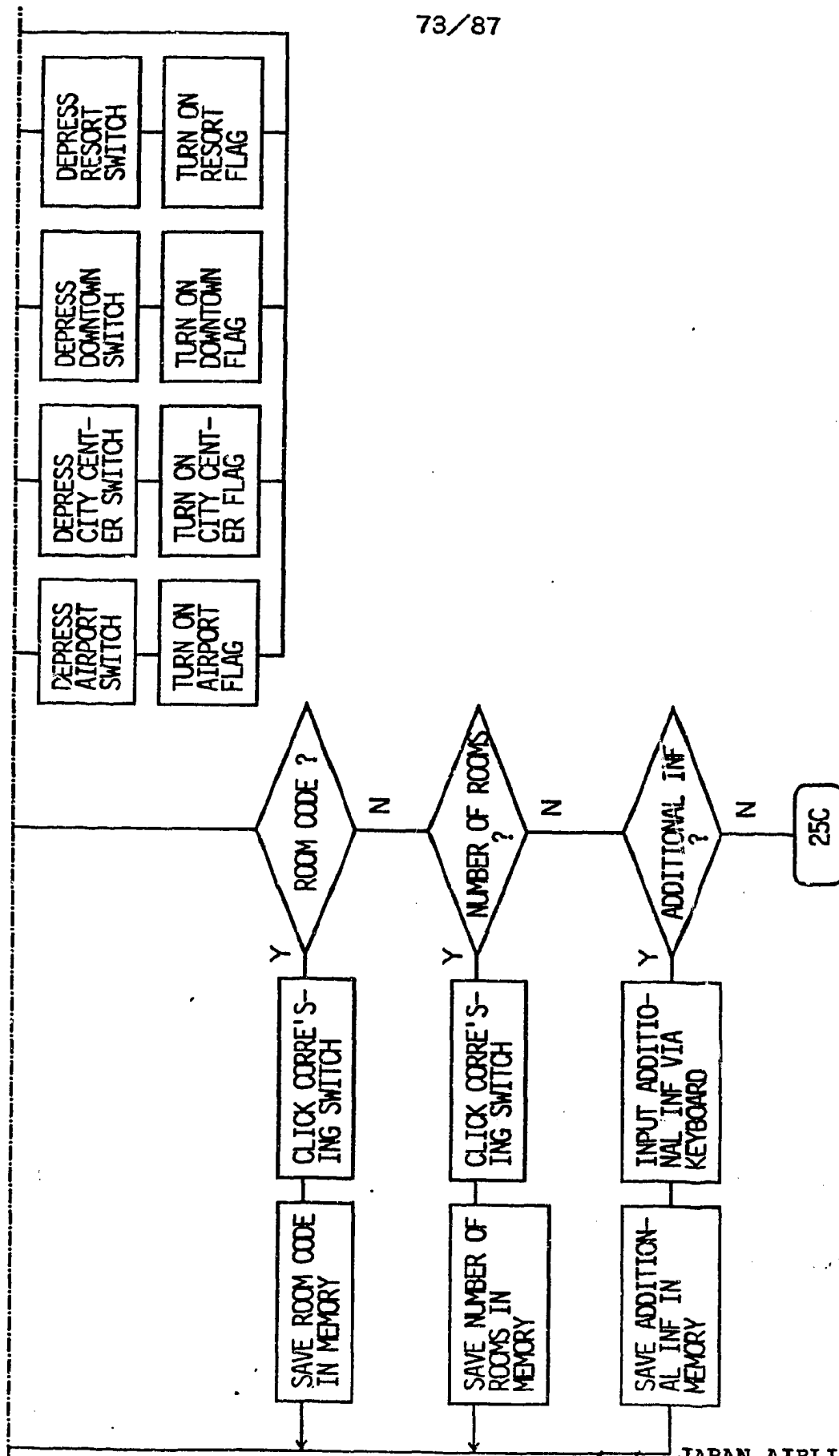


FIG. 25B III

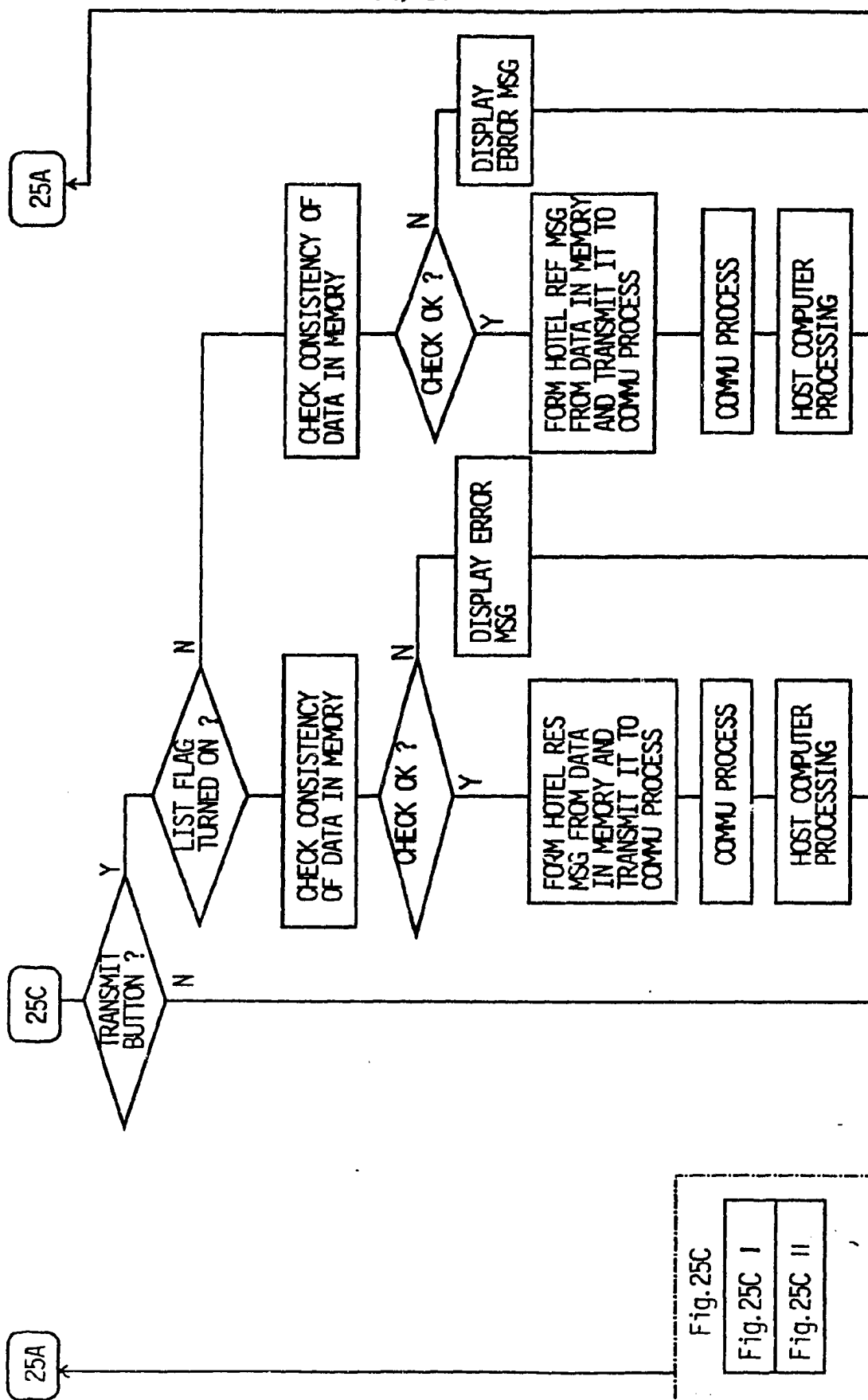


FIG. 25C I

Fig. 25C

Fig. 25C I

Fig. 25C II

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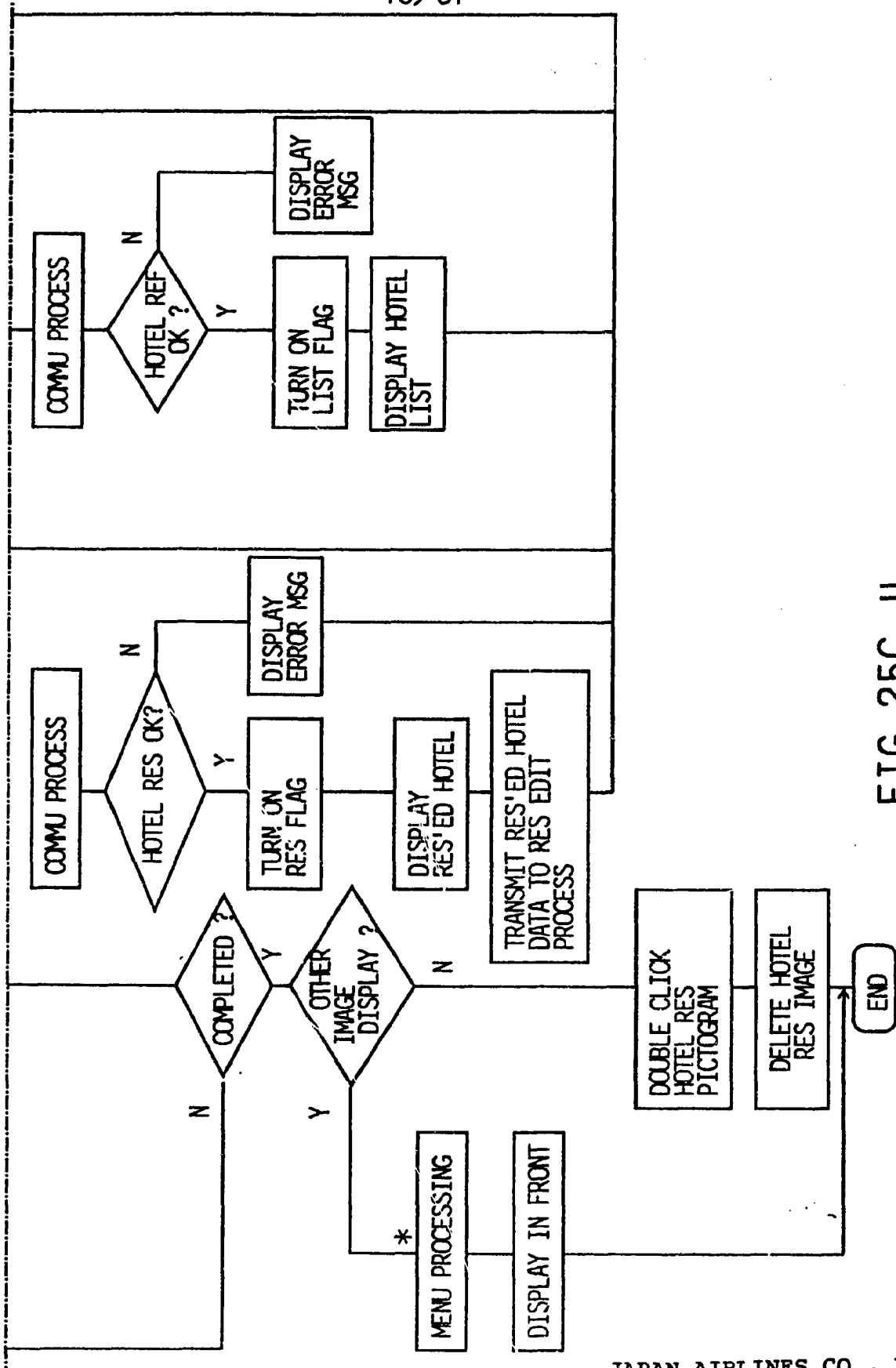


FIG. 25C II

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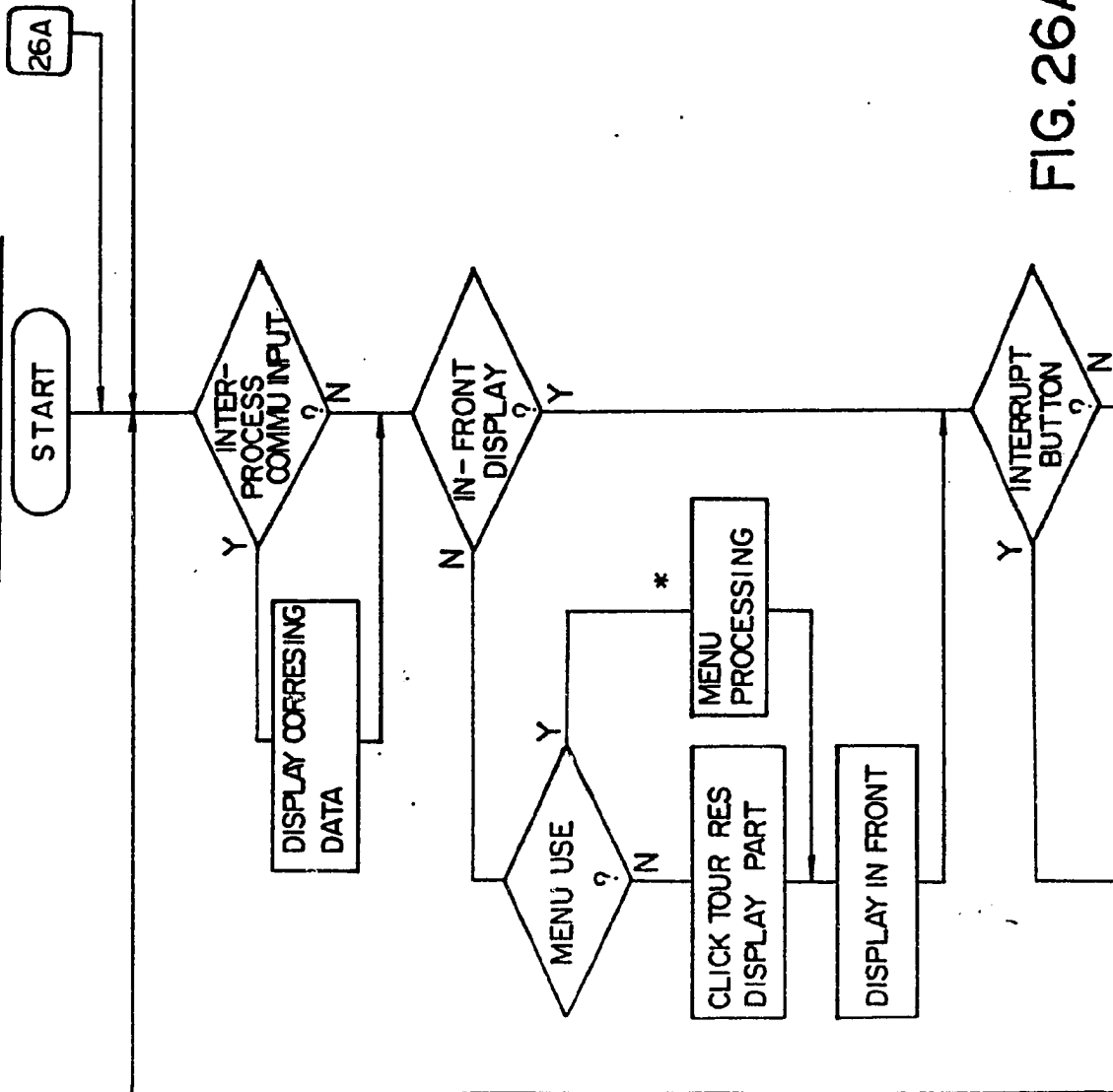
TOUR RESERVE PROCESS

FIG. 26 A

FIG. 26A I

FIG. 26A II

FIG. 26A I

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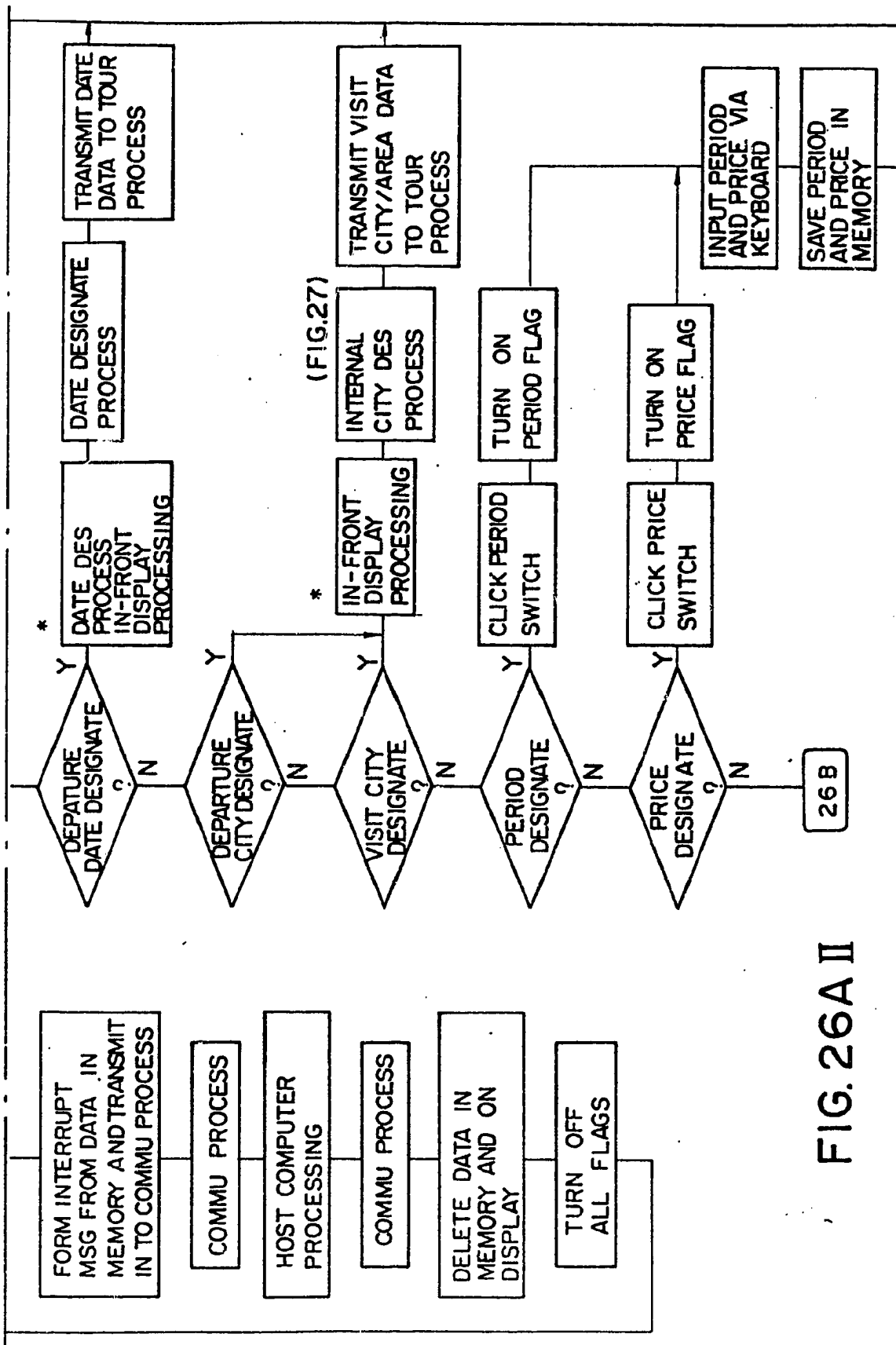


FIG. 26A II

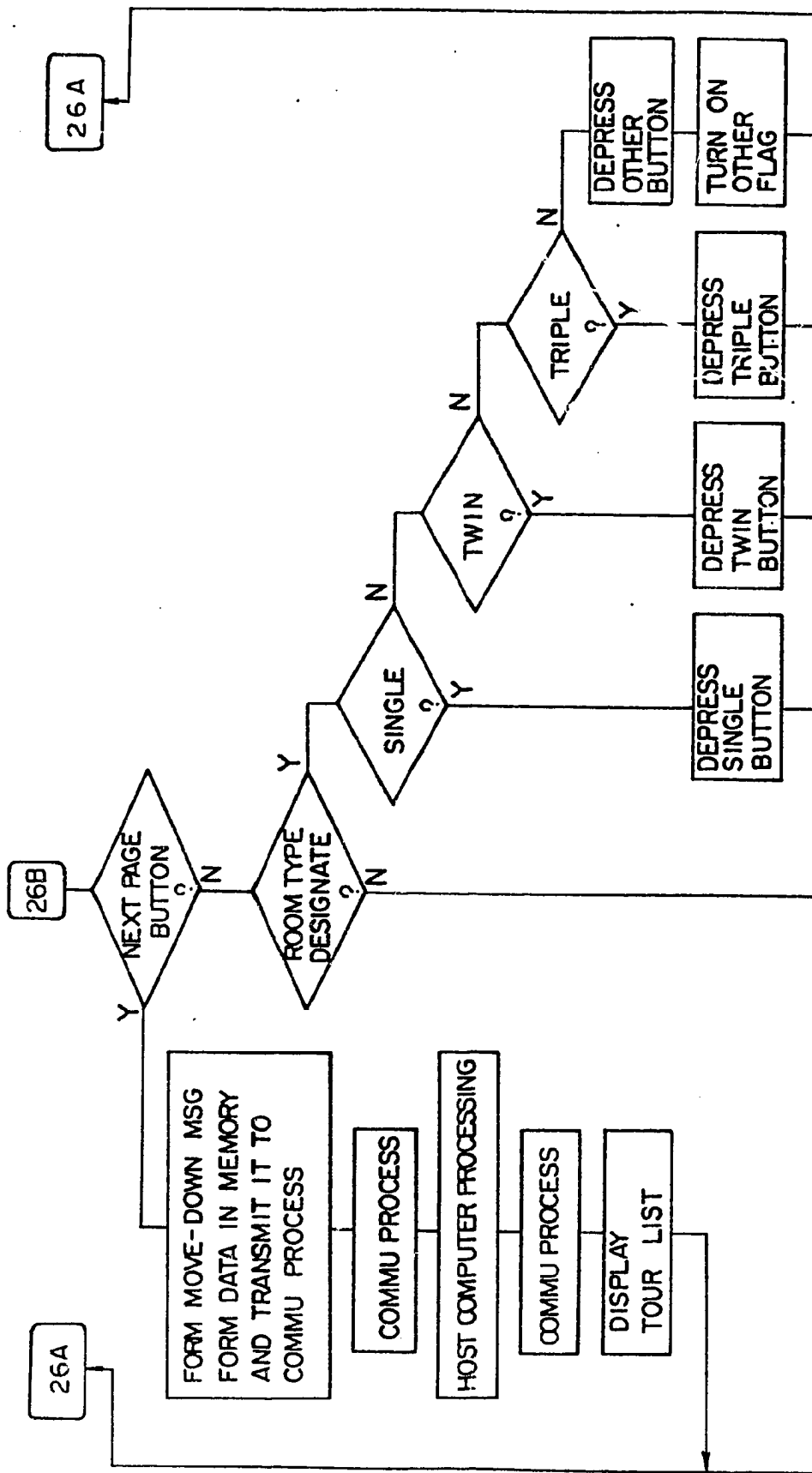


FIG. 26B I

FIG. 26B

FIG. 26B I

FIG. 26B II

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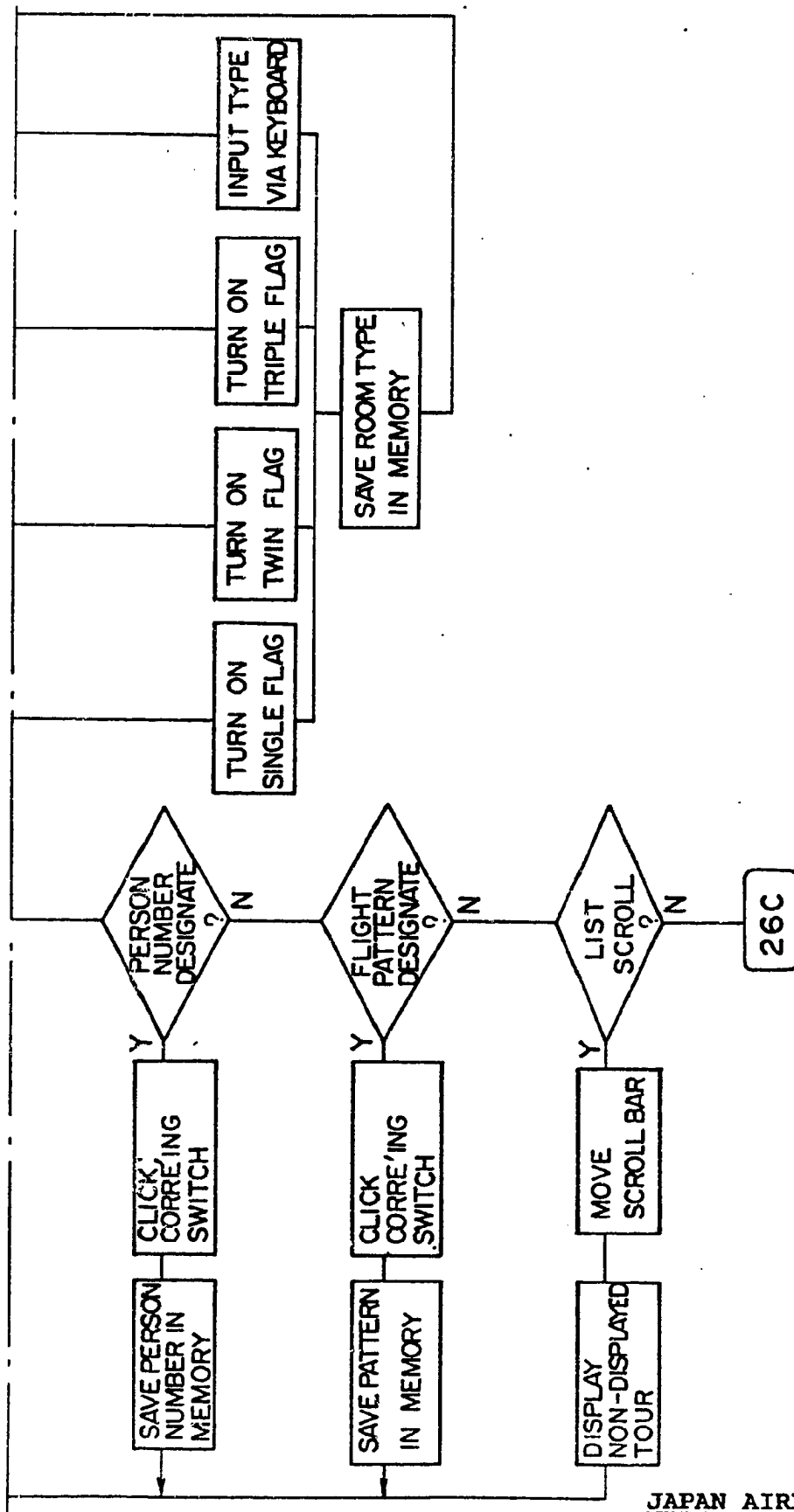


FIG. 26B II

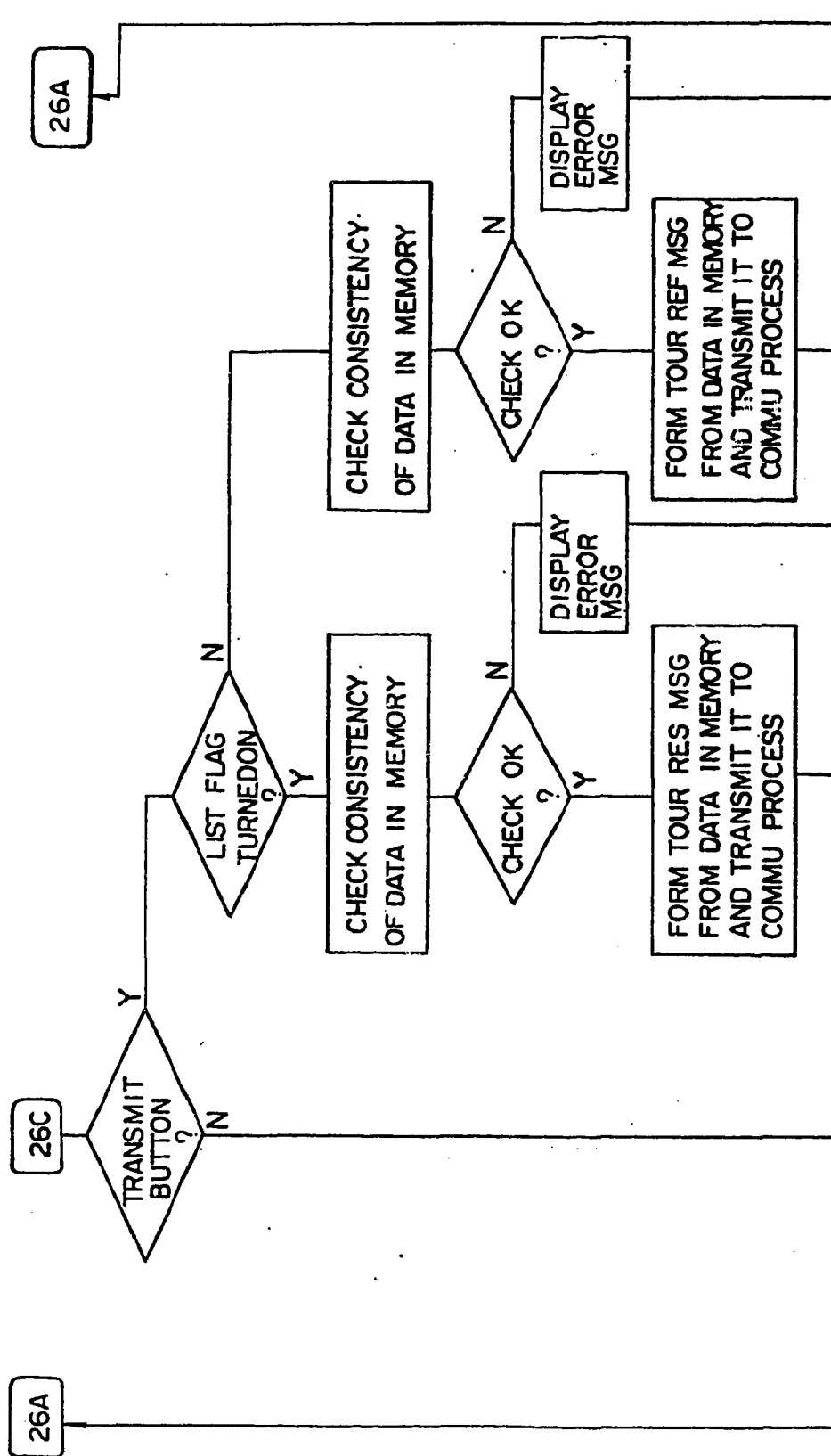


FIG. 26C I

FIG. 26C

FIG. 26C I

FIG. 26C II

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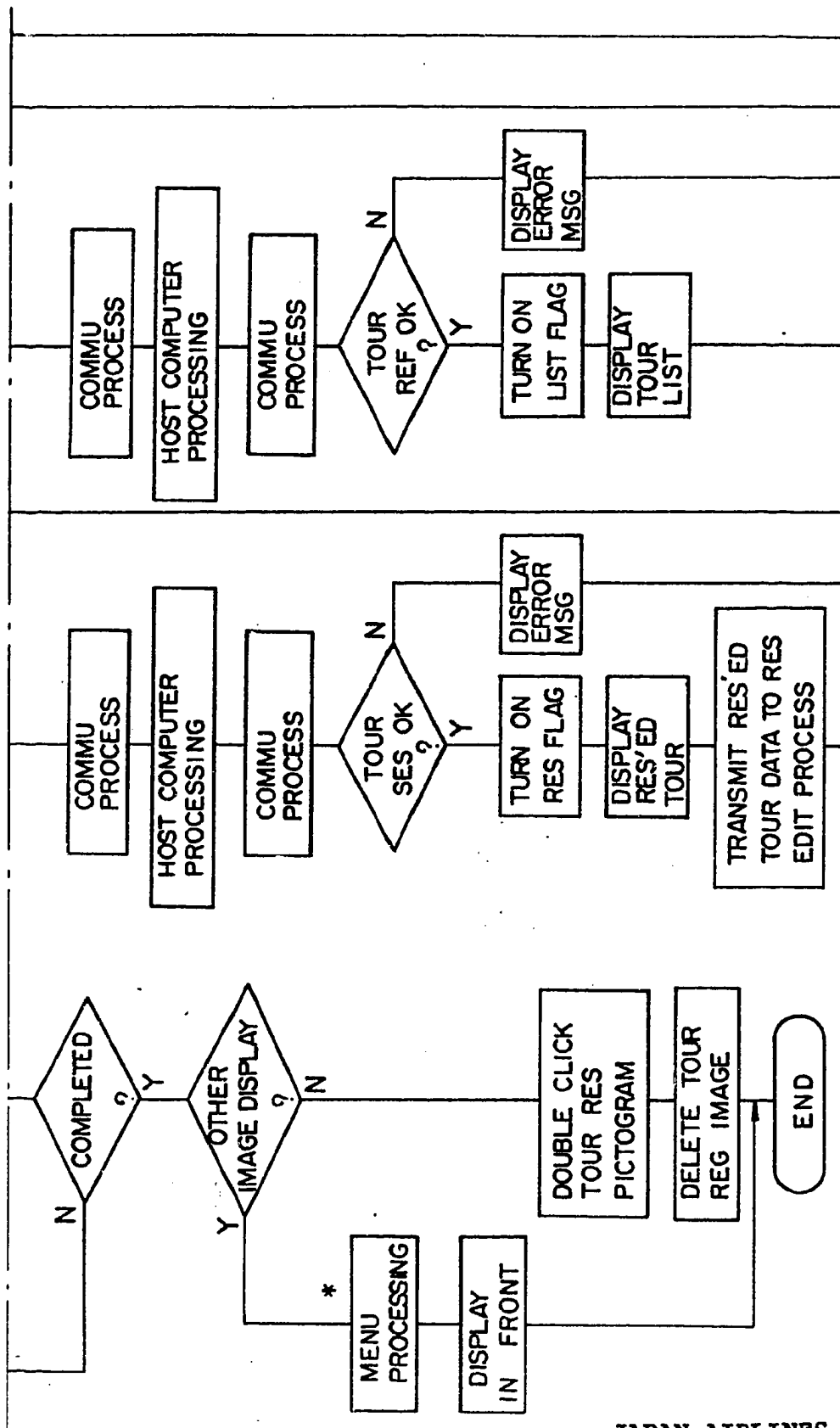


FIG. 26C II

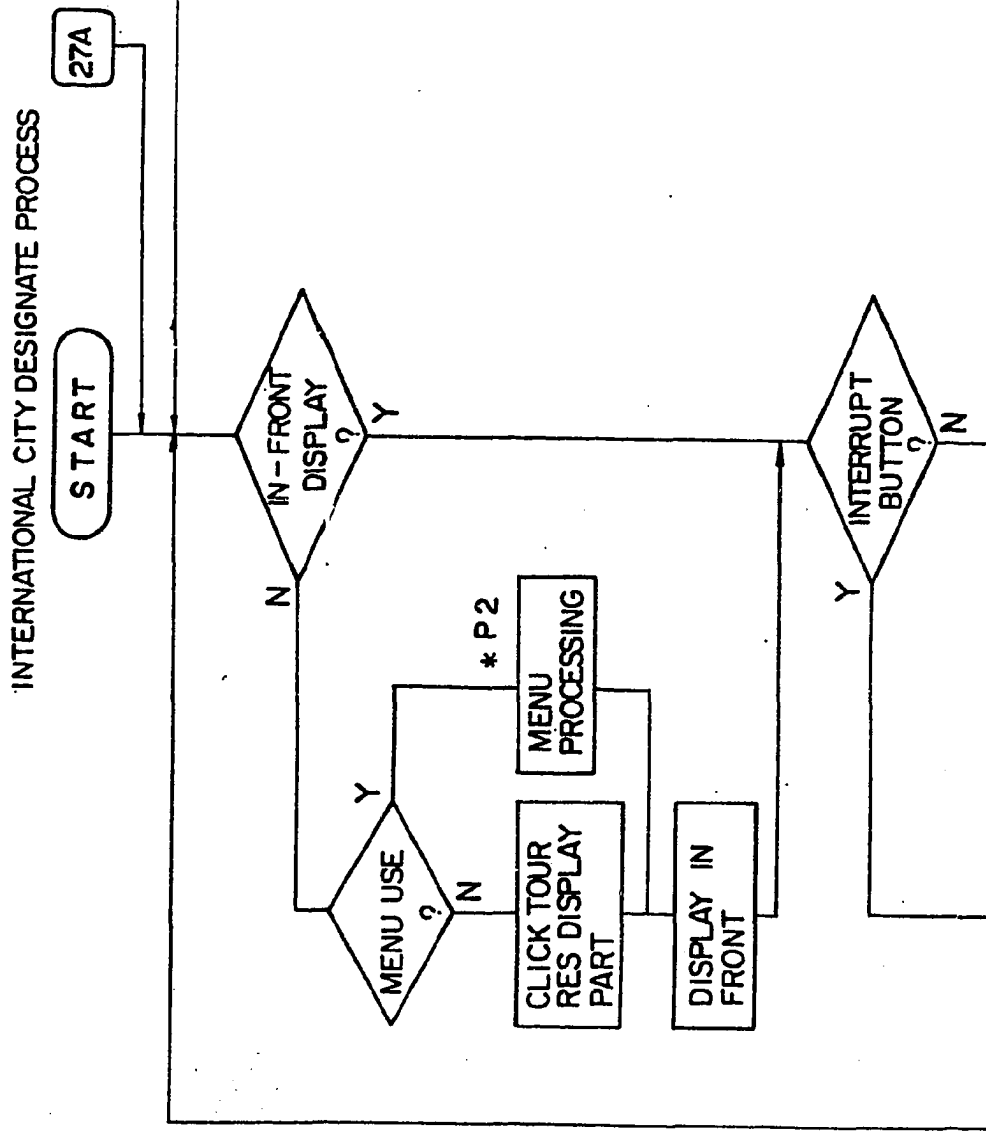


FIG. 27A I

FIG. 27A

FIG. 27A I

FIG. 27A II

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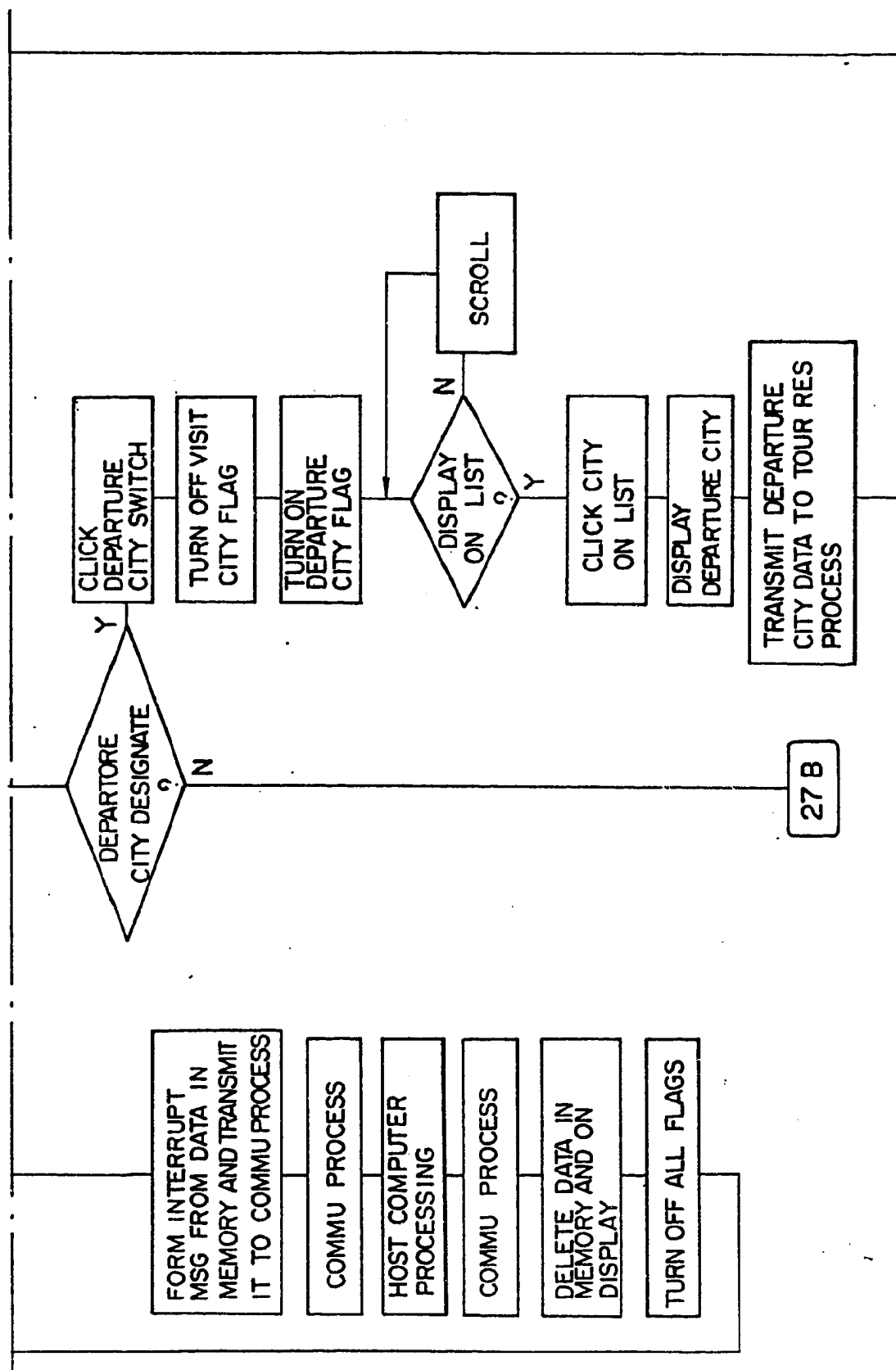


FIG. 27A II

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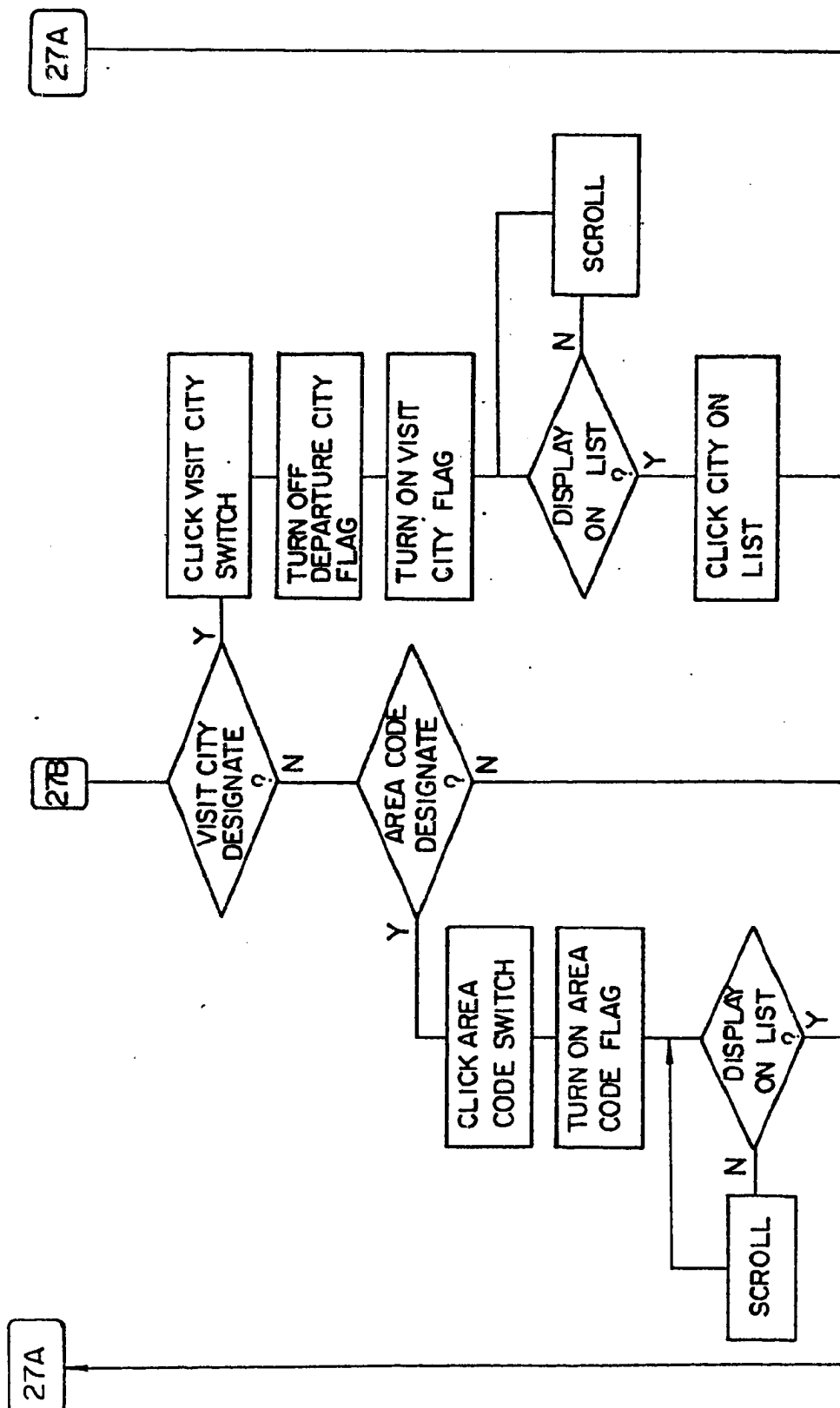


FIG. 27B I

FIG. 27B

FIG. 27B I

FIG. 27B II

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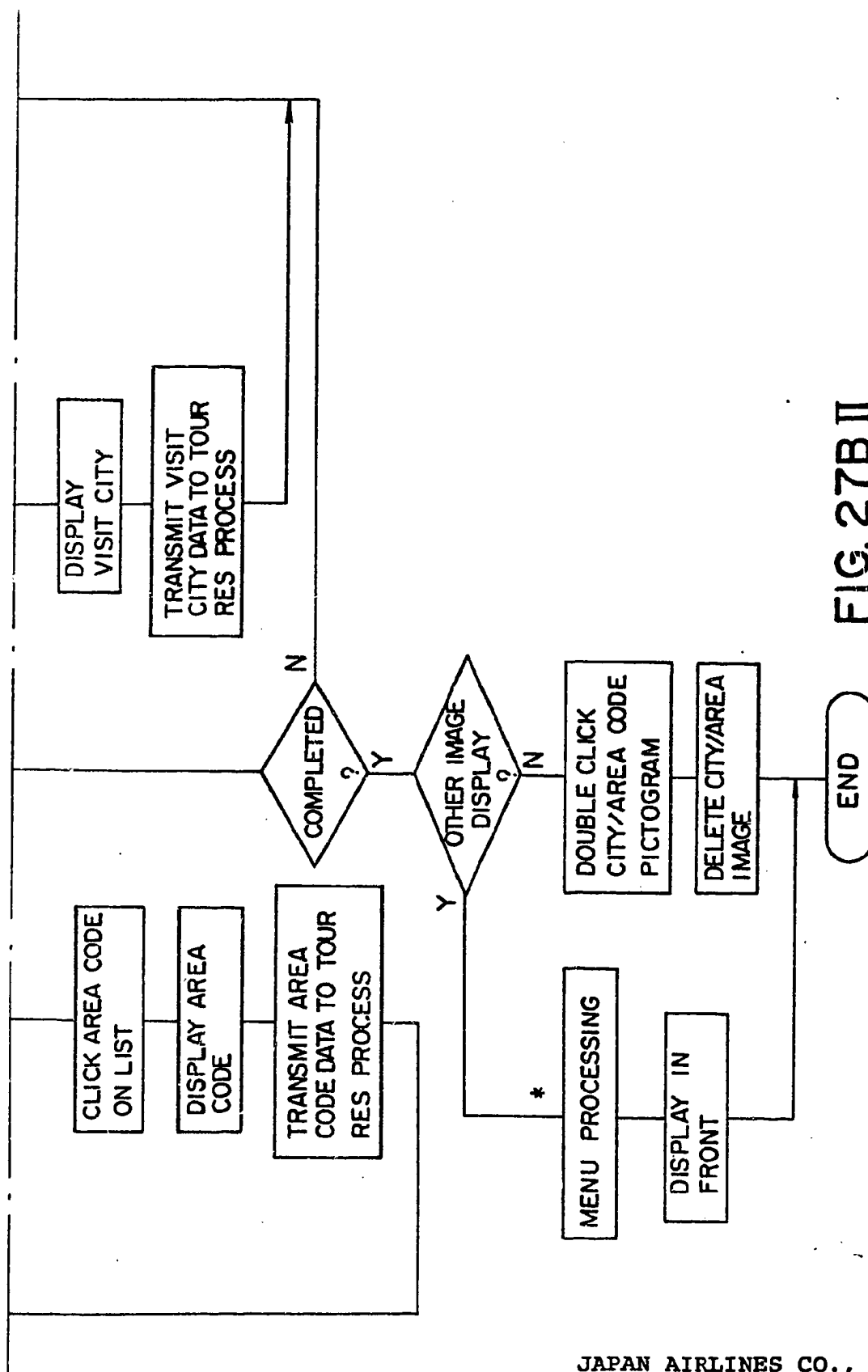
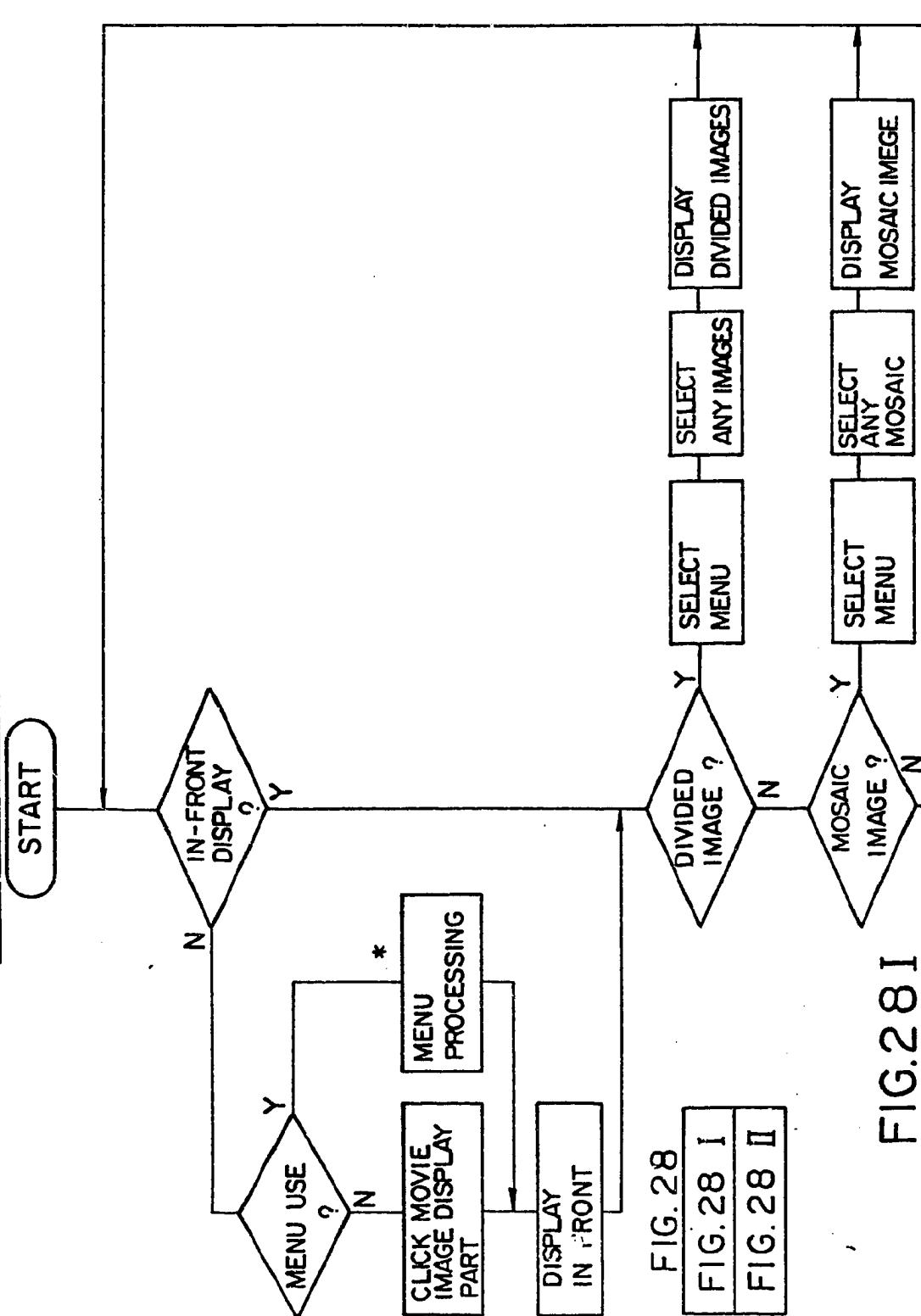


FIG. 27B II

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MOTION PICTURE PROCESS

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*J. A. Andrews*



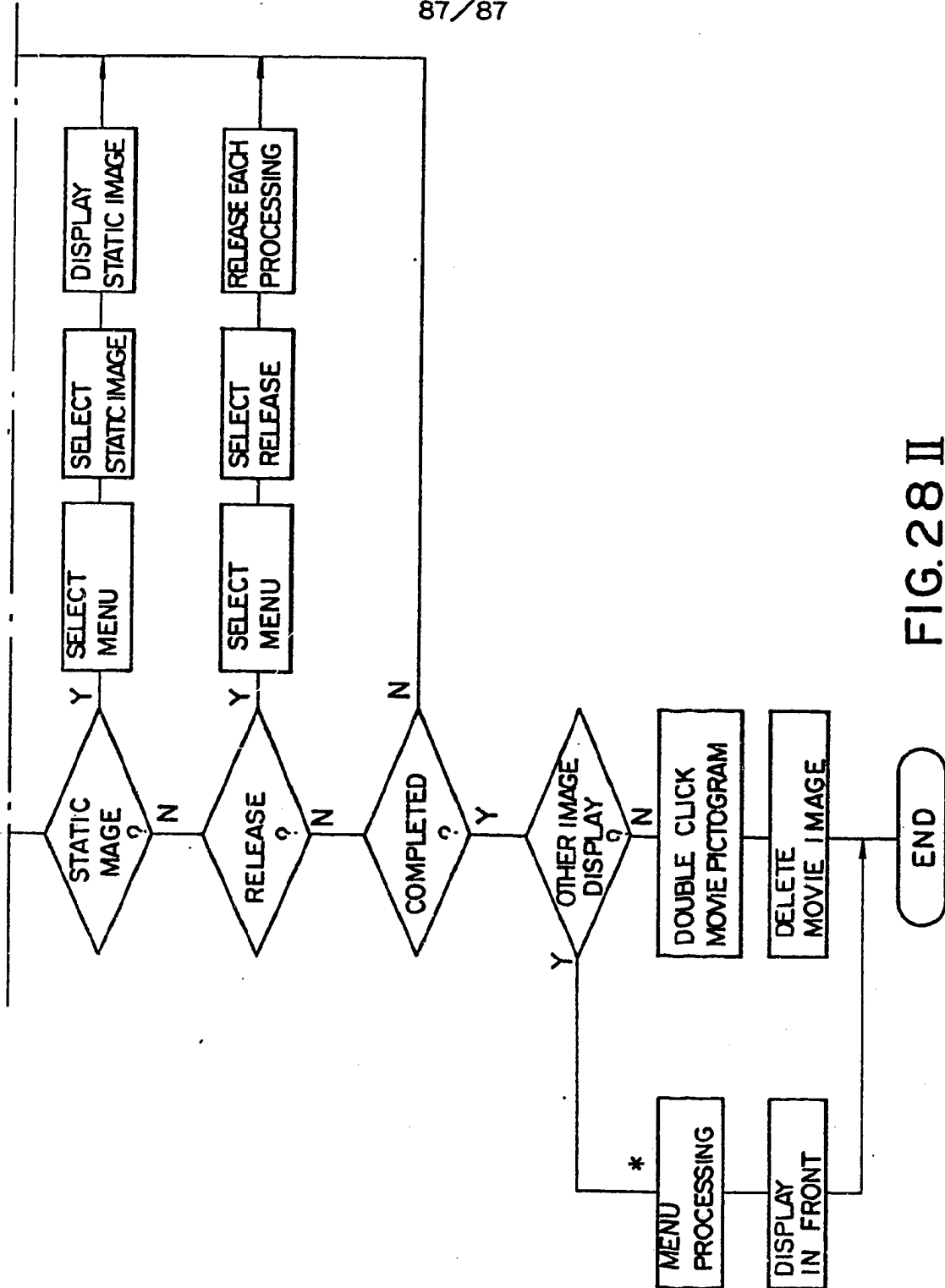


FIG. 28 II

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**END**